

GOMOS Level 2 Daily Report

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This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

Item	Value
Time of report generation	22APR2013 22:25:16
Data source version	GOMOS/6.01
Start time of products	29-07-2007 (29JUL2007 00:00:00)
Stop time of products	30-07-2007 (30JUL2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	290
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

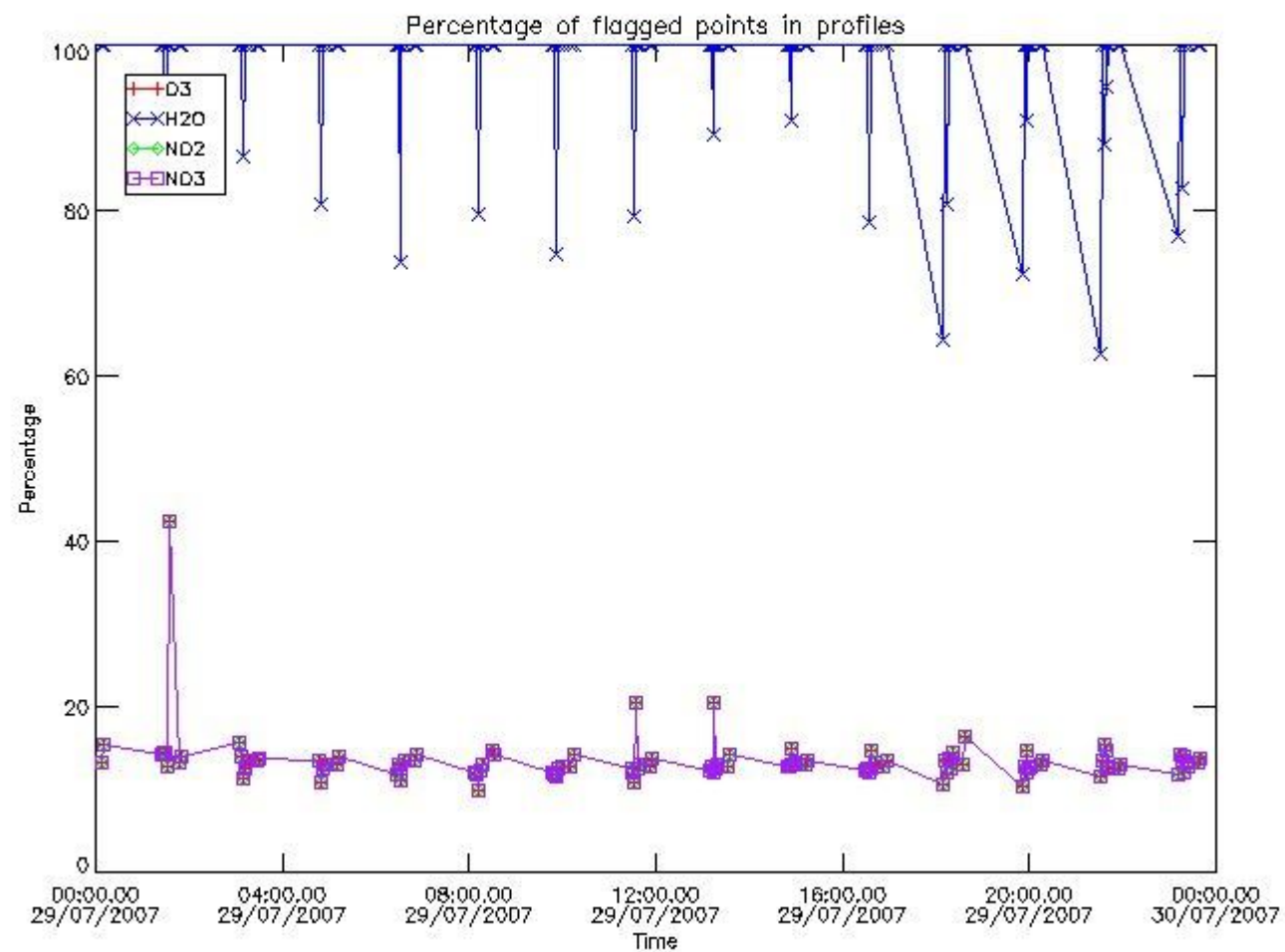
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20070729_000715_000000392060_00174_28284_3398.N1	29-JUL-2007 00:07:15	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	28284	No
2	GOM_NL__2PRFIN20070729_001006_000000372060_00174_28284_3399.N1	29-JUL-2007 00:10:06	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	28284	No
3	GOM_NL__2PRFIN20070729_001449_000000422060_00174_28284_3400.N1	29-JUL-2007 00:14:49	Straylight	41.500	148	Alp Tuc	2.8780	4100.0	83	28284	No
4	GOM_NL__2PRFIN20070729_001811_000000392060_00174_28284_3401.N1	29-JUL-2007 00:18:11	Straylight	38.500	45	Alp Pav	1.9400	26000.	77	28284	No
5	GOM_NL__2PRFIN20070729_002637_000000462060_00174_28284_3402.N1	29-JUL-2007 00:26:37	Bright	45.500	103	38Zet Sgr	2.6000	9700.0	91	28284	No
6	GOM_NL__2PRFIN20070729_002901_000000372060_00174_28284_3403.N1	29-JUL-2007 00:29:01	Bright	37.000	155	41Pi Sgr	2.9000	6600.0	74	28284	No
7	GOM_NL__2PRFIN20070729_003856_000000362060_00174_28284_3404.N1	29-JUL-2007 00:38:56	Bright	36.000	168	17Zet Aql	2.9860	11000.	72	28284	No
8	GOM_NL__2PRFIN20070729_004600_000000382060_00174_28284_3405.N1	29-JUL-2007 00:46:00	Bright	37.500	5	3Alp Lyr	0.033000	11000.	75	28284	No
9	GOM_NL__2PRFIN20070729_004943_000000362060_00174_28284_3406.N1	29-JUL-2007 00:49:43	Bright	36.000	69	33Gam Dra	2.2310	3800.0	72	28284	No
10	GOM_NL__2PRFIN20070729_005334_000000362060_00174_28284_3407.N1	29-JUL-2007 00:53:34	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	28284	No
11	GOM_NL__2PRFIN20070729_005746_000000342060_00174_28284_3408.N1	29-JUL-2007 00:57:46	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	28284	No
12	GOM_NL__2PRFIN20070729_010034_000000342060_00174_28284_3409.N1	29-JUL-2007 01:00:34	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	28284	No
13	GOM_NL__2PRFIN20070729_011321_000000342060_00174_28284_3410.N1	29-JUL-2007 01:13:21	Bright	34.000	42	34Bet Aur	1.9000	10200.	68	28284	No
14	GOM_NL__2PRFIN20070729_011819_000000422060_00174_28284_3411.N1	29-JUL-2007 01:18:19	Bright	42.000	28	12Bet Tau	1.6500	15200.	84	28284	No
15	GOM_NL__2PRFIN20070729_012022_000000382060_00174_28284_3412.N1	29-JUL-2007 01:20:22	Twi_and_stray	38.000	176	23Zet Tau	3.0200	22000.	76	28284	No
16	GOM_NL__2PRFIN20070729_012447_000000362060_00174_28284_3413.N1	29-JUL-2007 01:24:47	Dark	36.000	27	24Gam Ori	1.6360	26000.	72	28284	No
17	GOM_NL__2PRFIN20070729_012642_000000352060_00174_28284_3414.N1	29-JUL-2007 01:26:42	Dark	35.000	30	46Eps Ori	1.6940	30000.	70	28284	No
18	GOM_NL__2PRFIN20070729_012905_000000392060_00174_28284_3415.N1	29-JUL-2007 01:29:05	Dark	39.000	7	19Bet Ori	0.10000	14000.	78	28284	No
19	GOM_NL__2PRFIN20070729_013119_000000402060_00174_28284_3416.N1	29-JUL-2007 01:31:19	Dark	40.000	101	11Alp Lep	2.5820	7000.0	80	28284	No
20	GOM_NL__2PRFIN20070729_013535_000000402060_00174_28284_3417.N1	29-JUL-2007 01:35:35	Dark	39.500	108	Alp Col	2.6520	15200.	79	28284	No
21	GOM_NL__2PRFIN20070729_014752_000000392060_00175_28285_3412.N1	29-JUL-2007 01:47:52	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	28285	No
22	GOM_NL__2PRFIN20070729_015042_000000372060_00175_28285_3413.N1	29-JUL-2007 01:50:42	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	28285	No
23	GOM_NL__2PRFIN20070729_015525_000000432060_00175_28285_3414.N1	29-JUL-2007 01:55:25	Straylight	42.500	148	Alp Tuc	2.8780	4100.0	85	28285	No
24	GOM_NL__2PRFIN20070729_015847_000000412060_00175_28285_3415.N1	29-JUL-2007 01:58:47	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	28285	No
25	GOM_NL__2PRFIN20070729_020713_000000522060_00175_28285_3416.N1	29-JUL-2007 02:07:13	Bright	52.000	103	38Zet Sgr	2.6000	9700.0	104	28285	No
26	GOM_NL__2PRFIN20070729_020937_000000382060_00175_28285_3417.N1	29-JUL-2007 02:09:37	Bright	37.500	155	41Pi Sgr	2.9000	6600.0	75	28285	No
27	GOM_NL__2PRFIN20070729_021932_000000352060_00175_28285_3418.N1	29-JUL-2007 02:19:32	Bright	35.000	168	17Zet Aql	2.9860	11000.	70	28285	No
28	GOM_NL__2PRFIN20070729_022636_000000382060_00175_28285_3419.N1	29-JUL-2007 02:26:36	Bright	38.000	5	3Alp Lyr	0.033000	11000.	76	28285	No
29	GOM_NL__2PRFIN20070729_023019_000000332060_00175_28285_3420.N1	29-JUL-2007 02:30:19	Bright	32.500	69	33Gam Dra	2.2310	3800.0	65	28285	No
30	GOM_NL__2PRFIN20070729_023410_000000342060_00175_28285_3421.N1	29-JUL-2007 02:34:10	Bright	34.000	119	14Eta Dra	2.7270	4700.0	68	28285	No
31	GOM_NL__2PRFIN20070729_023822_000000332060_00175_28285_3422.N1	29-JUL-2007 02:38:22	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	28285	No
32	GOM_NL__2PRFIN20070729_024110_000000332060_00175_28285_3423.N1	29-JUL-2007 02:41:10	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	28285	No
33	GOM_NL__2PRFIN20070729_025357_000000342060_00175_28285_3424.N1	29-JUL-2007 02:53:57	Bright	34.000	42	34Bet Aur	1.9000	10200.	68	28285	No
34	GOM_NL__2PRFIN20070729_025856_000000402060_00175_28285_3425.N1	29-JUL-2007 02:58:56	Bright	39.500	28	12Bet Tau	1.6500	15200.	79	28285	No
35	GOM_NL__2PRFIN20070729_030058_000000382060_00175_28285_3426.N1	29-JUL-2007 03:00:58	Twi_and_stray	37.500	176	23Zet Tau	3.0200	22000.	75	28285	No
36	GOM_NL__2PRFIN20070729_030523_000000362060_00175_28285_3427.N1	29-JUL-2007 03:05:23	Dark	36.000	27	24Gam Ori	1.6360	26000.	72	28285	No
37	GOM_NL__2PRFIN20070729_030718_000000372060_00175_28285_3428.N1	29-JUL-2007 03:07:18	Dark	36.500	30	46Eps Ori	1.6940	30000.	73	28285	No
38	GOM_NL__2PRFIN20070729_030941_000000452060_00175_28285_3429.N1	29-JUL-2007 03:09:41	Dark	45.000	7	19Bet Ori	0.10000	14000.	90	28285	No
39	GOM_NL__2PRFIN20070729_031156_000000412060_00175_28285_3430.N1	29-JUL-2007 03:11:56	Dark	40.500	101	11Alp Lep	2.5820	7000.0	81	28285	No
40	GOM_NL__2PRFIN20070729_031611_000000382060_00175_28285_3431.N1	29-JUL-2007 03:16:11	Dark	37.500	108	Alp Col	2.6520	15200.	75	28285	No
41	GOM_NL__2PRFIN20070729_032828_000000382060_00176_28286_3418.N1	29-JUL-2007 03:28:28	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	28286	No
42	GOM_NL__2PRFIN20070729_033118_000000372060_00176_28286_3419.N1	29-JUL-2007 03:31:18	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	28286	No

279	GOM_NL__2PRFIN20070729_231150_000000442060_00187_28297_3655.N1	29-JUL-2007 23:11:50	Dark	43.500	14	58Alp Ori	0.87000	3000.0	87	28297	No
280	GOM_NL__2PRFIN20070729_231433_000000362060_00187_28297_3656.N1	29-JUL-2007 23:14:33	Dark	36.000	30	46Eps Ori	1.6940	30000.	72	28297	No
281	GOM_NL__2PRFIN20070729_231657_000000382060_00187_28297_3657.N1	29-JUL-2007 23:16:57	Dark	38.000	7	19Bet Ori	0.10000	14000.	76	28297	No
282	GOM_NL__2PRFIN20070729_231829_000000372060_00187_28297_3658.N1	29-JUL-2007 23:18:29	Dark	36.500	47	2Bet CMa	1.9760	28000.	73	28297	No
283	GOM_NL__2PRFIN20070729_232004_000000422060_00187_28297_3659.N1	29-JUL-2007 23:20:04	Dark	42.000	139	9Bet Lep	2.8330	5600.0	84	28297	No
284	GOM_NL__2PRFIN20070729_232325_000000402060_00187_28297_3660.N1	29-JUL-2007 23:23:25	Dark	40.000	108	Alp Col	2.6520	15200.	80	28297	No
285	GOM_NL__2PRFIN20070729_233546_000000392060_00188_28298_3652.N1	29-JUL-2007 23:35:46	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	28298	No
286	GOM_NL__2PRFIN20070729_233832_000000372060_00188_28298_3653.N1	29-JUL-2007 23:38:32	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	28298	No
287	GOM_NL__2PRFIN20070729_234318_000000432060_00188_28298_3654.N1	29-JUL-2007 23:43:18	Straylight	42.500	148	Alp Tuc	2.8780	4100.0	85	28298	No
288	GOM_NL__2PRFIN20070729_234638_000000392060_00188_28298_3655.N1	29-JUL-2007 23:46:38	Straylight	38.500	45	Alp Pav	1.9400	26000.	77	28298	No
289	GOM_NL__2PRFIN20070729_235503_000000392060_00188_28298_3656.N1	29-JUL-2007 23:55:03	Bright	38.500	103	38Zet Sgr	2.6000	9700.0	77	28298	No
290	GOM_NL__2PRFIN20070729_235726_000000372060_00188_28298_3657.N1	29-JUL-2007 23:57:26	Bright	37.000	155	41Pi Sgr	2.9000	6600.0	74	28298	No

3. Quality information per product

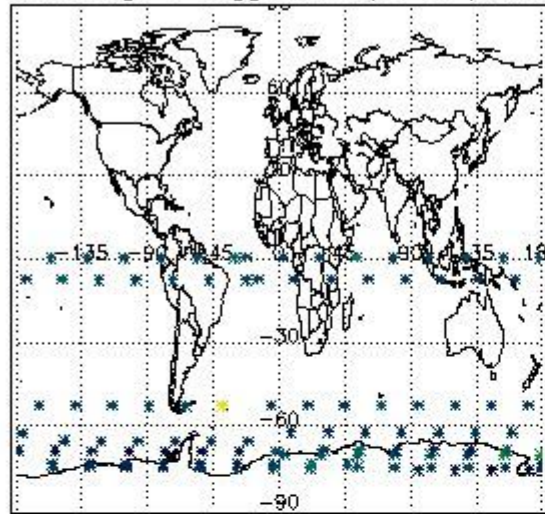
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

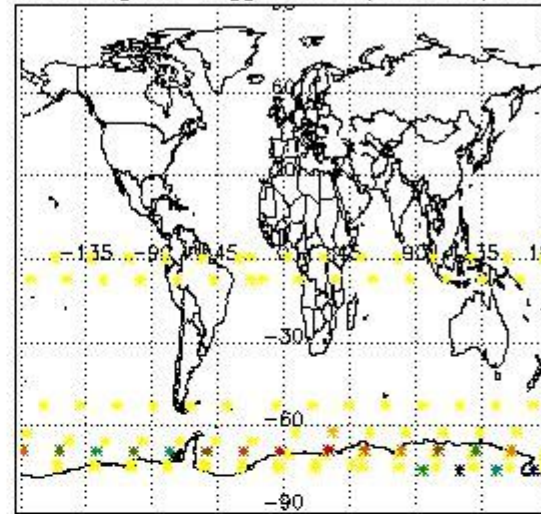


3.2 Plot quality information per product (world map)

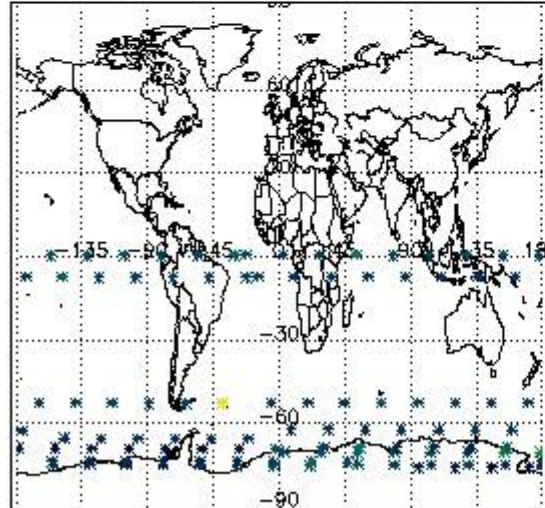
Percentage of flagged data per O3 profile



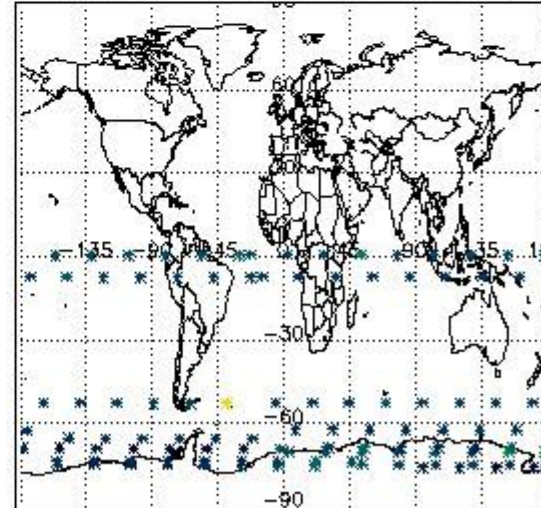
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

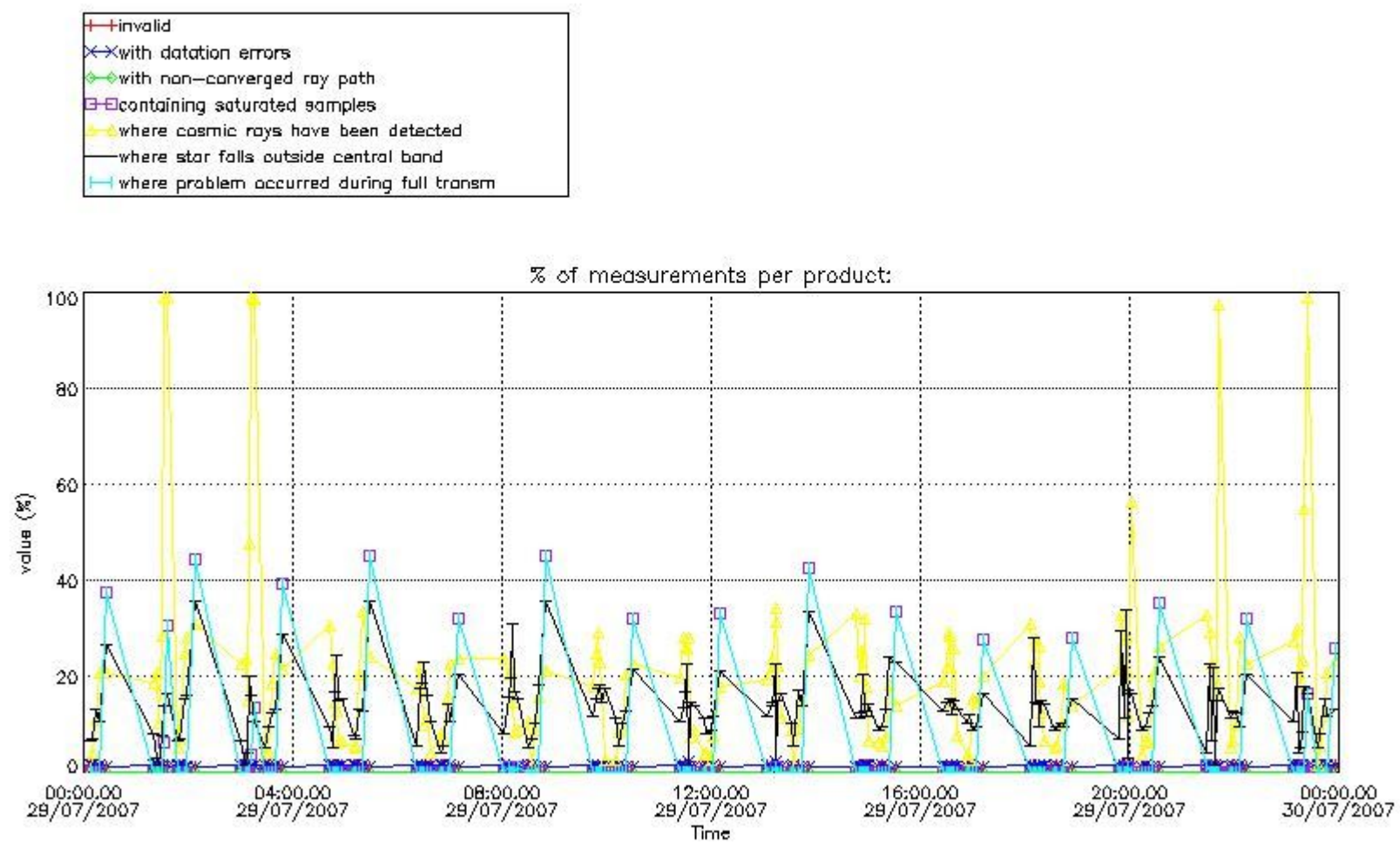


4. Level 1 quality information per product

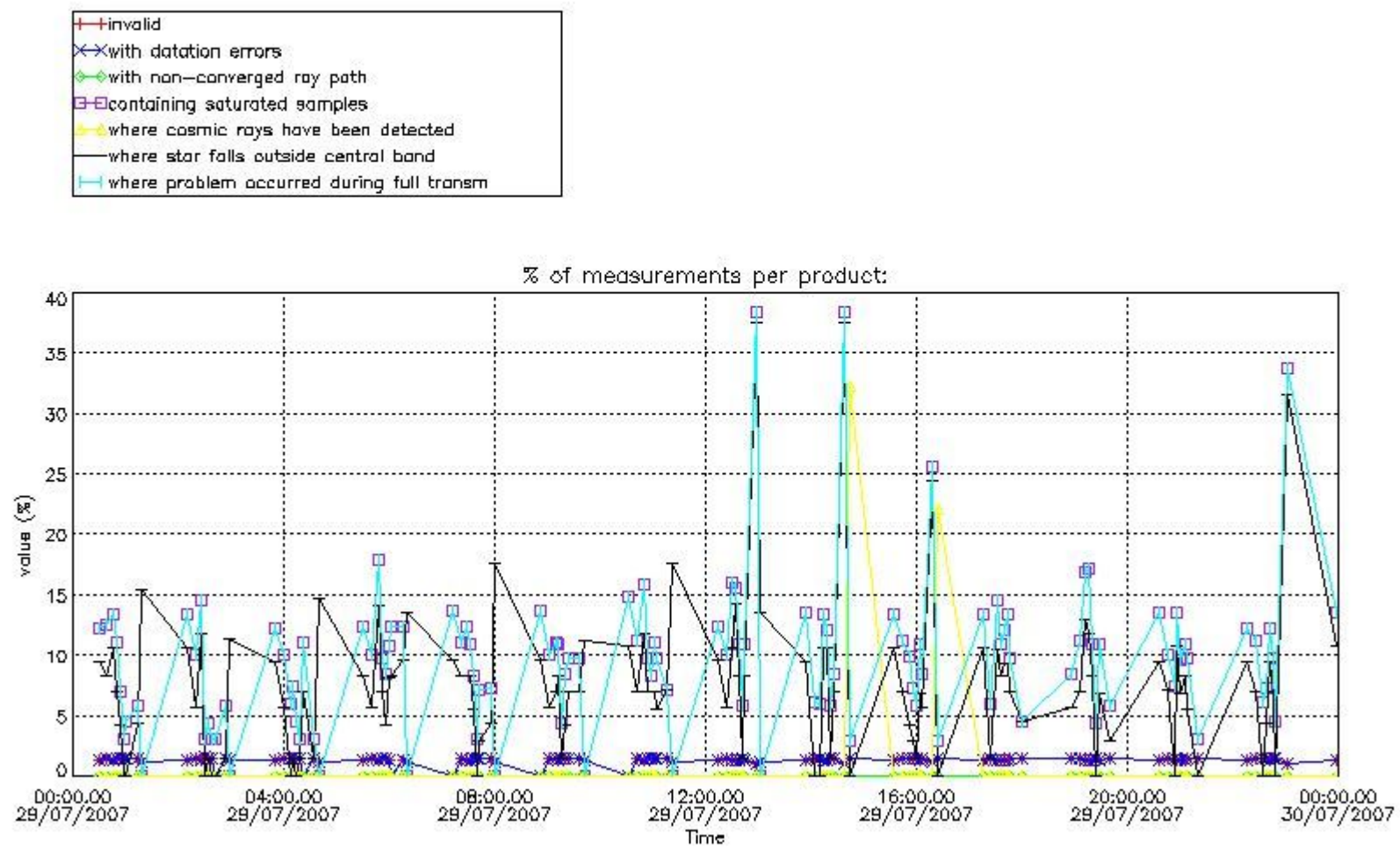
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

4.1 Plot quality information per product (time dependant) coming from level 1b processing

4.1.1 Plot level 1 quality information per product (time dependant): ENVISAT ASCENDING passes

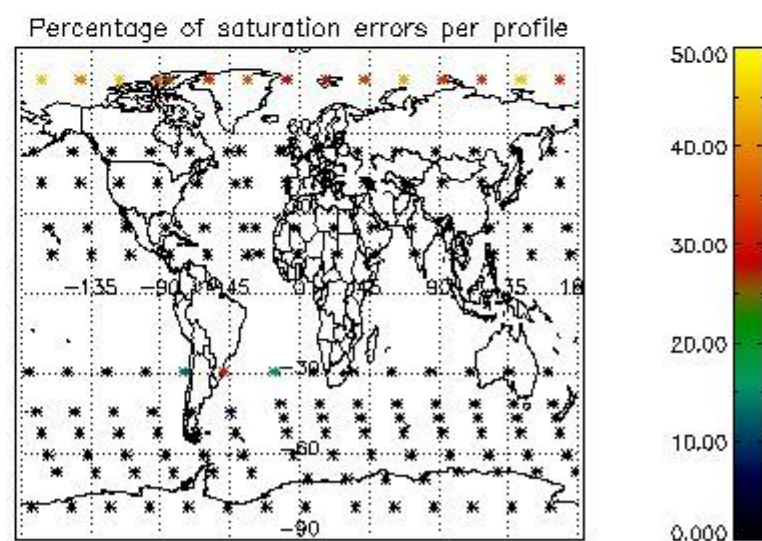
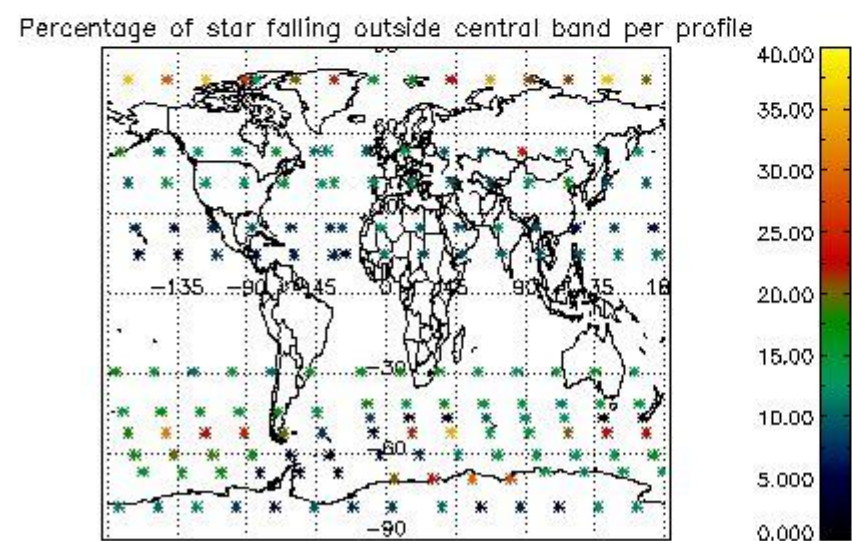
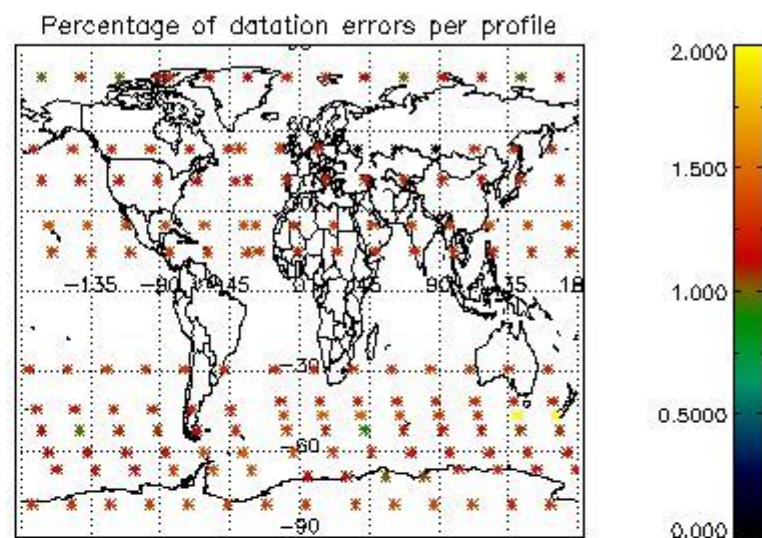
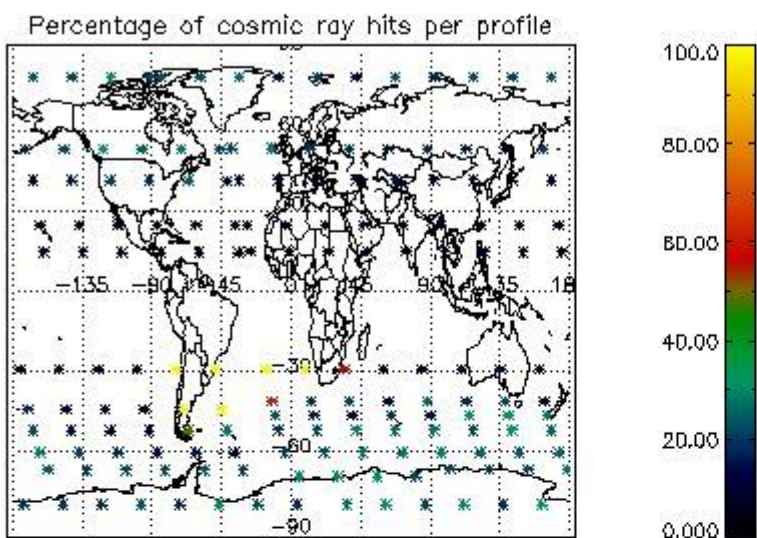


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

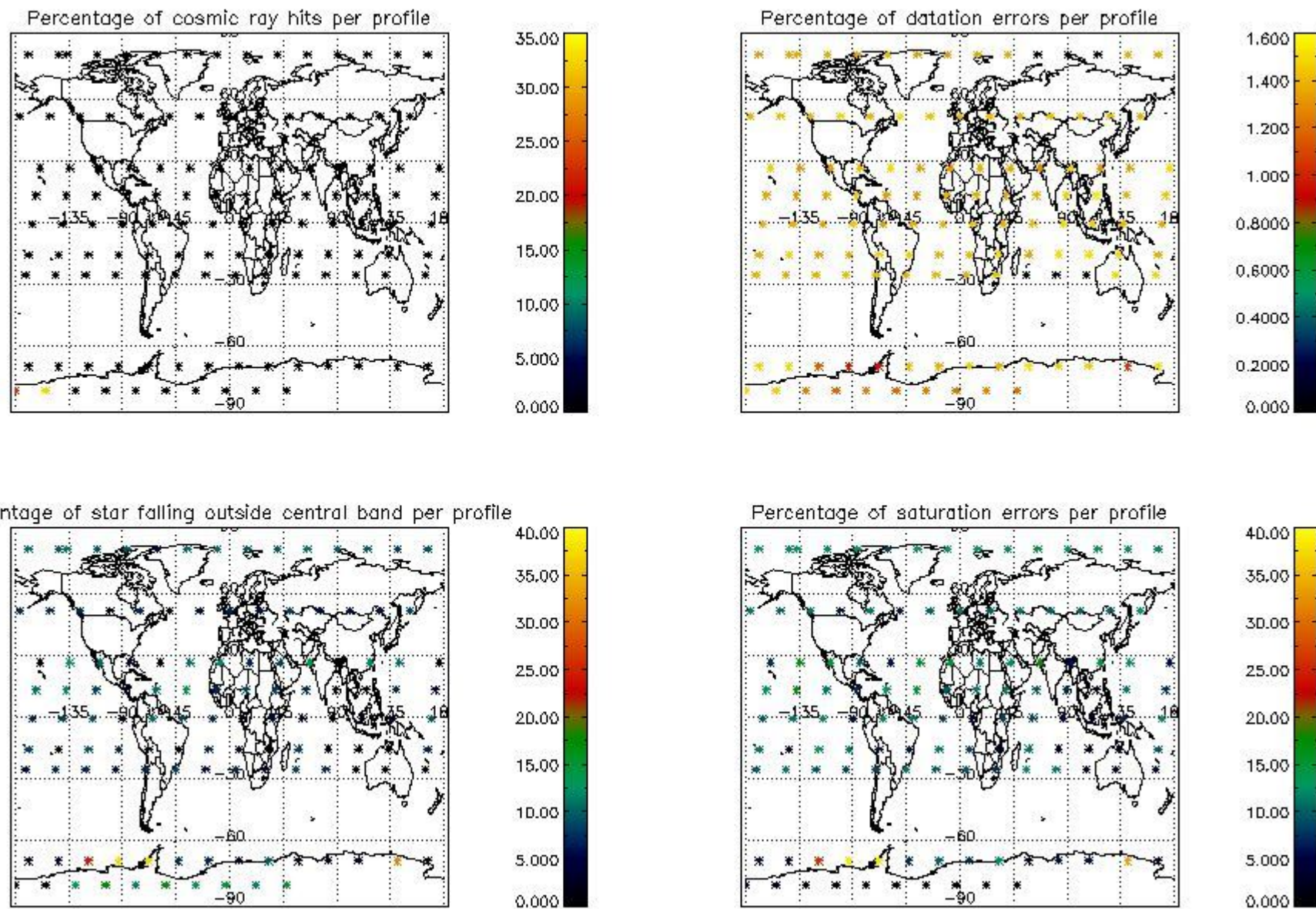


4.2 Plot quality information per product coming from level 1b processing (world map)

4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes



4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/o3_std of the level 2 products. The table below shows the statistics for given STD ranges.

The statistics are given with respect to the overall valid production:

- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

The 'Criteria' is applied to valid points of dark limb products:

- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

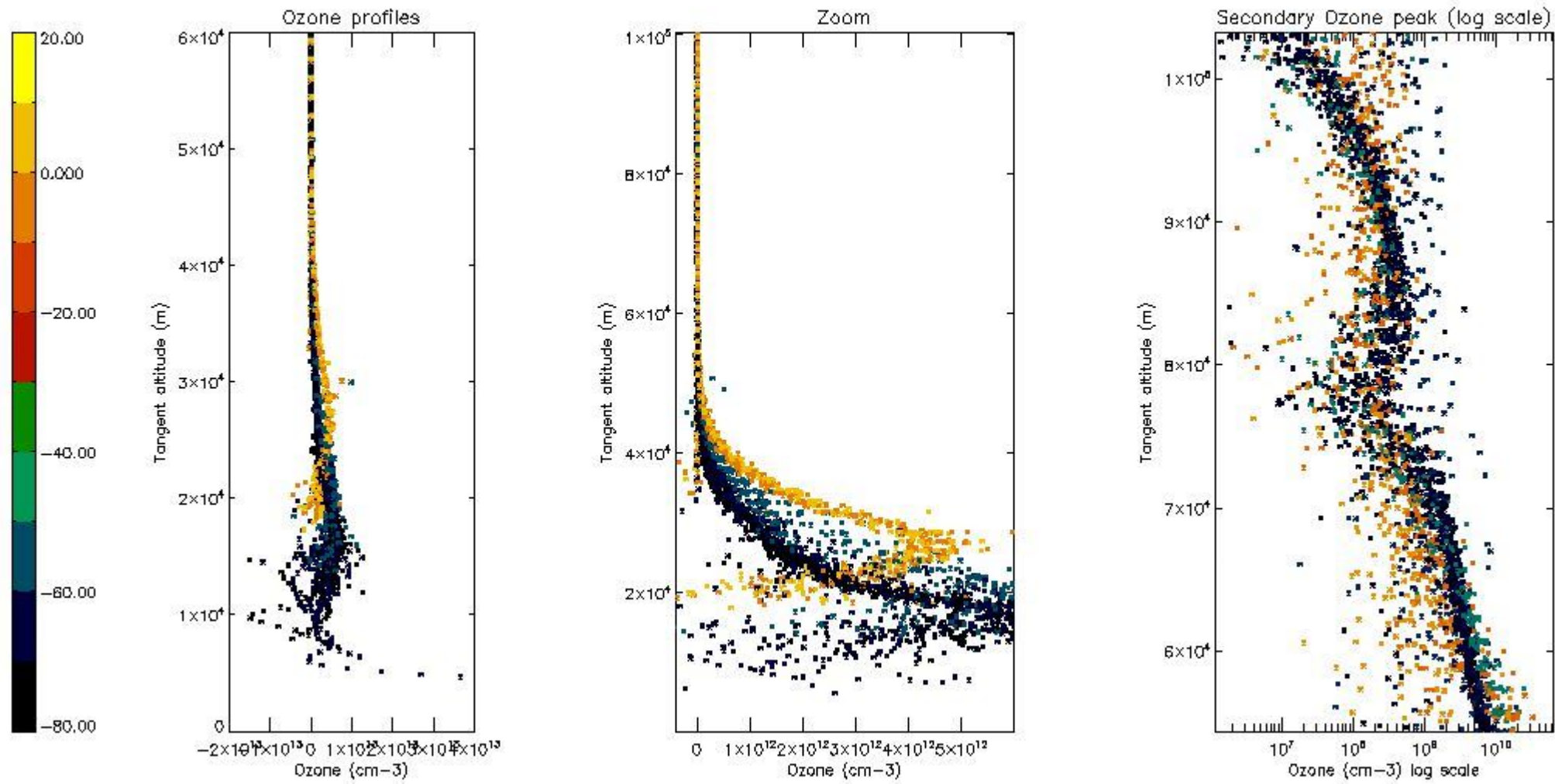
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	40
STD < 20	21

STD < 10	17
STD < 5	11

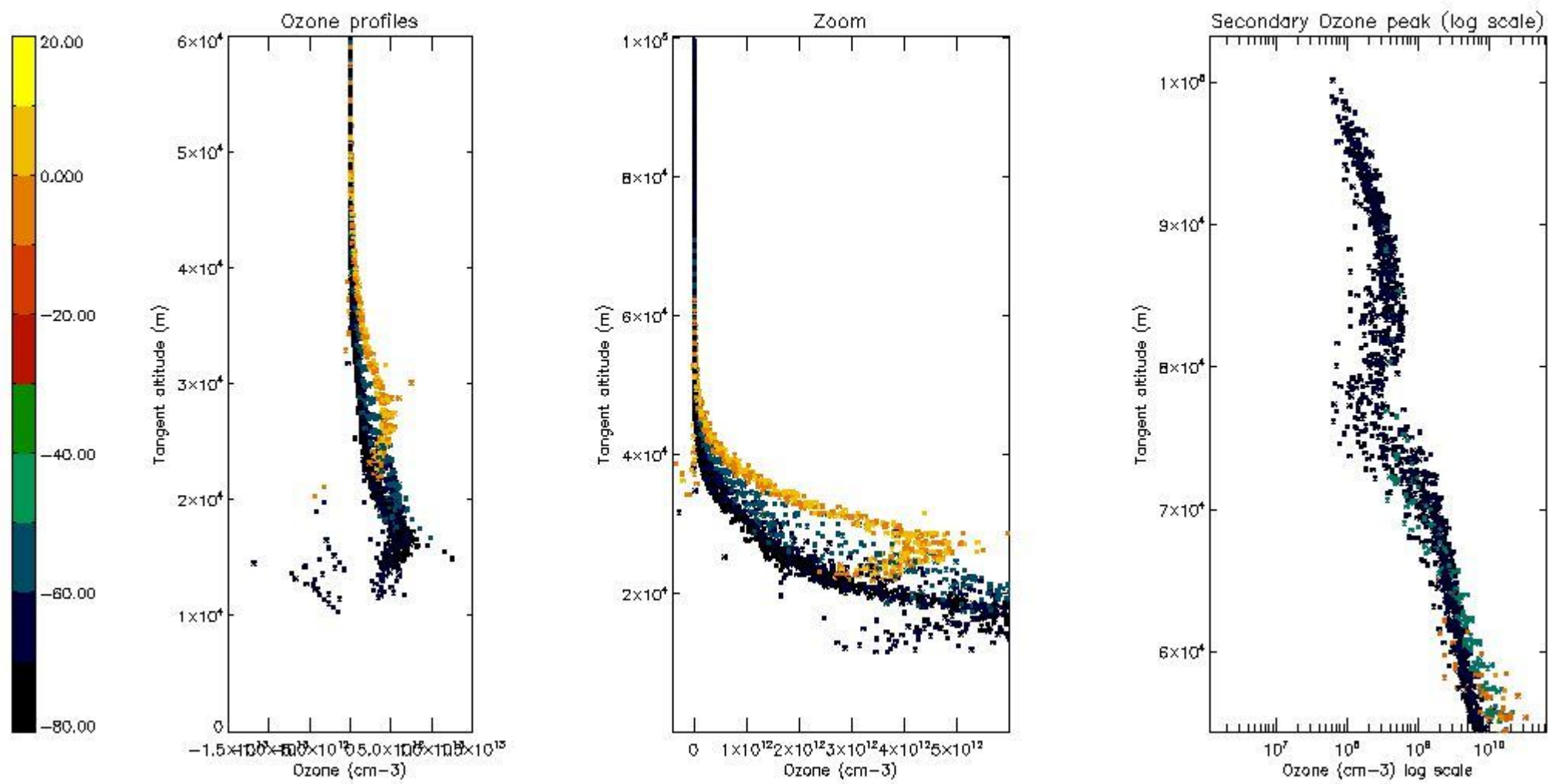
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



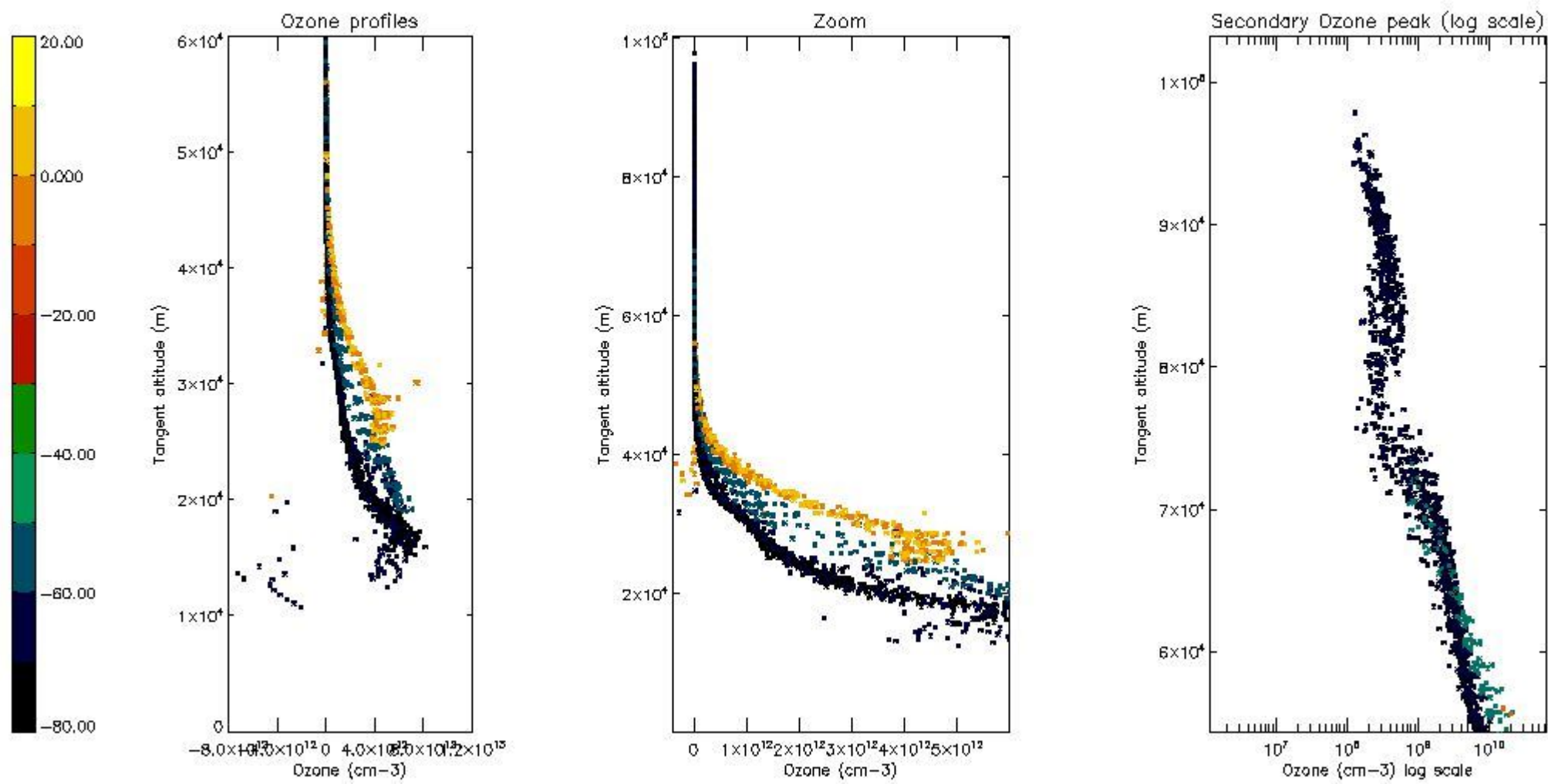
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



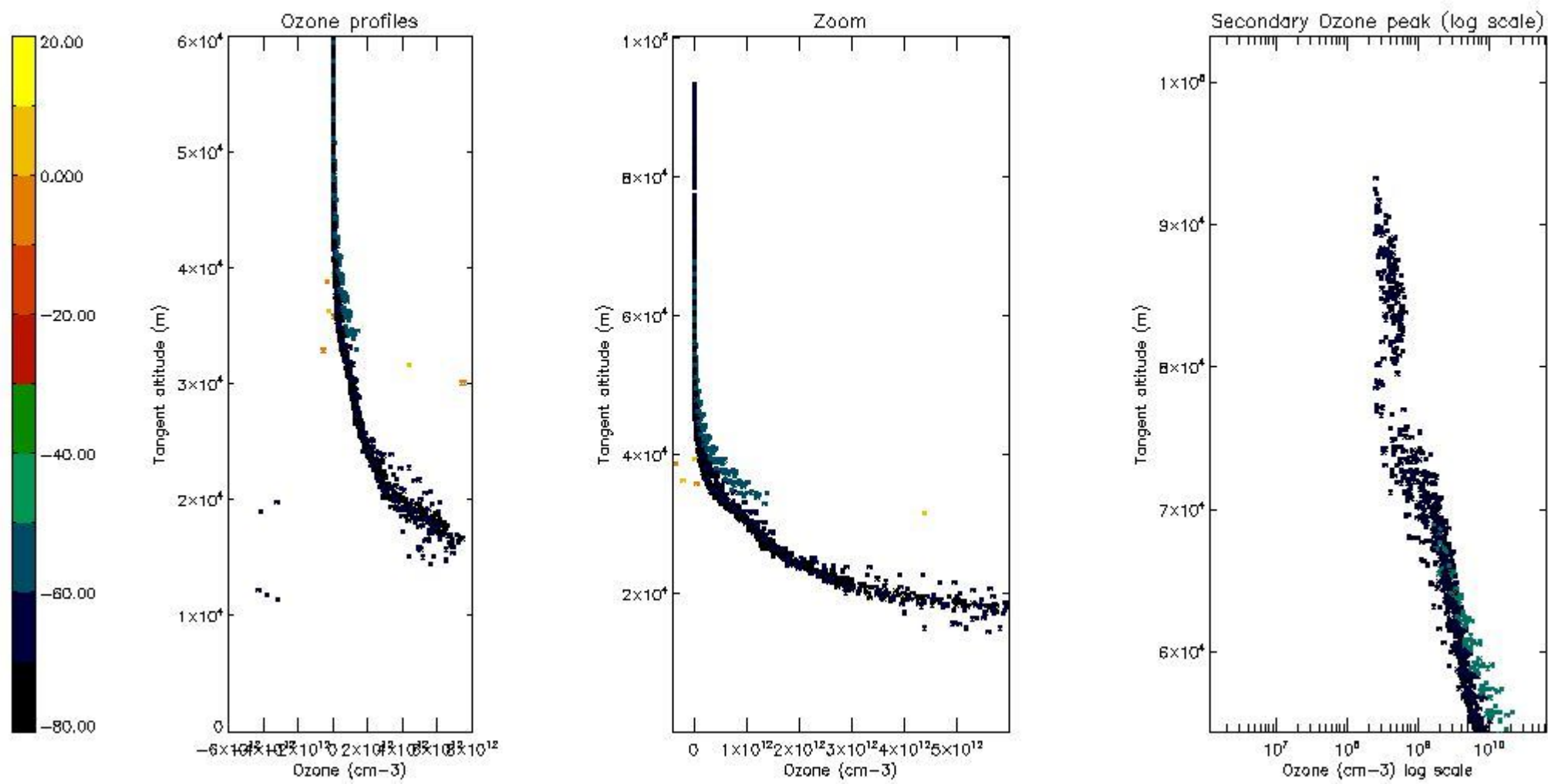
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



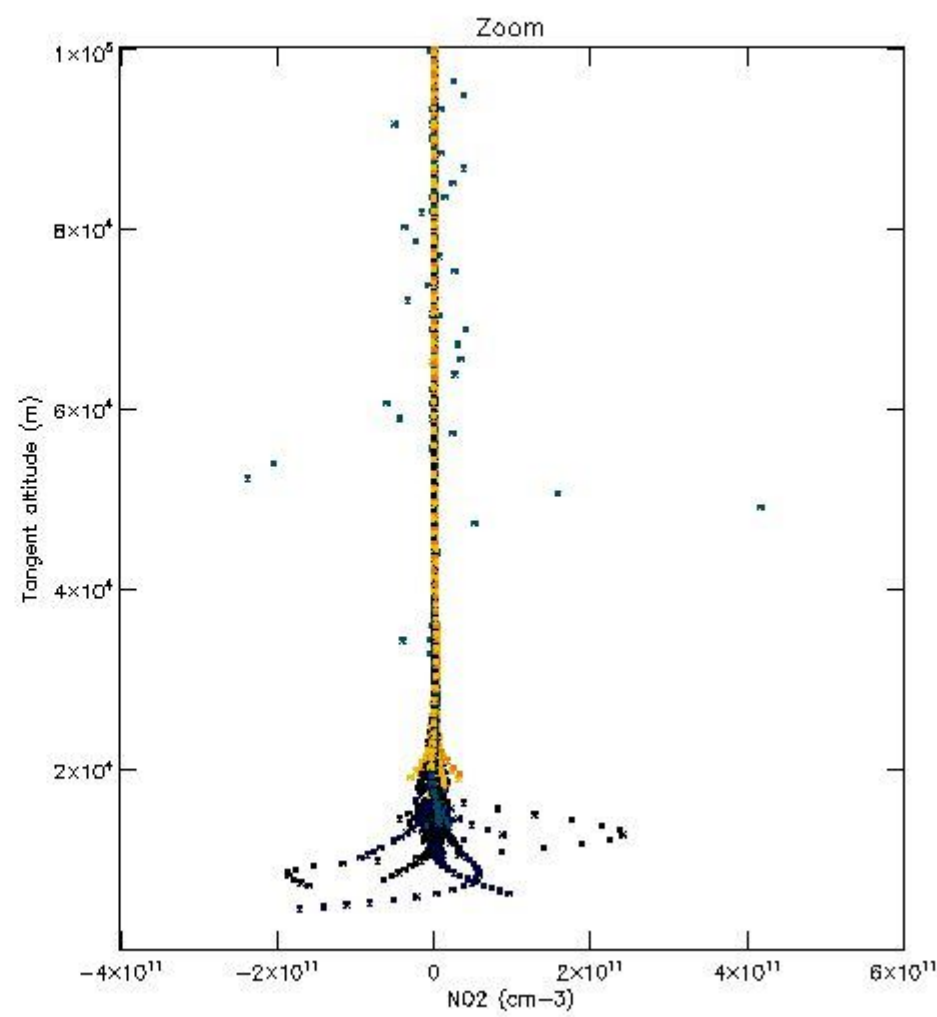
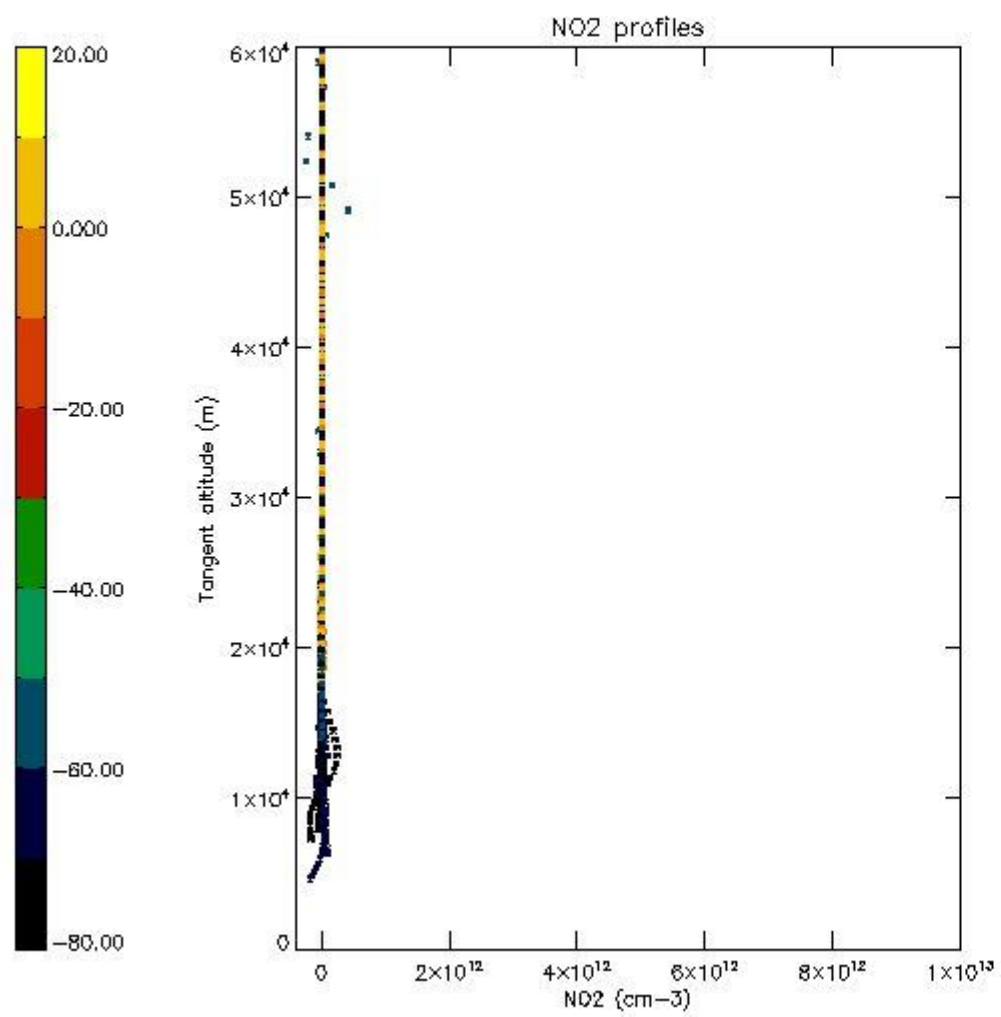
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



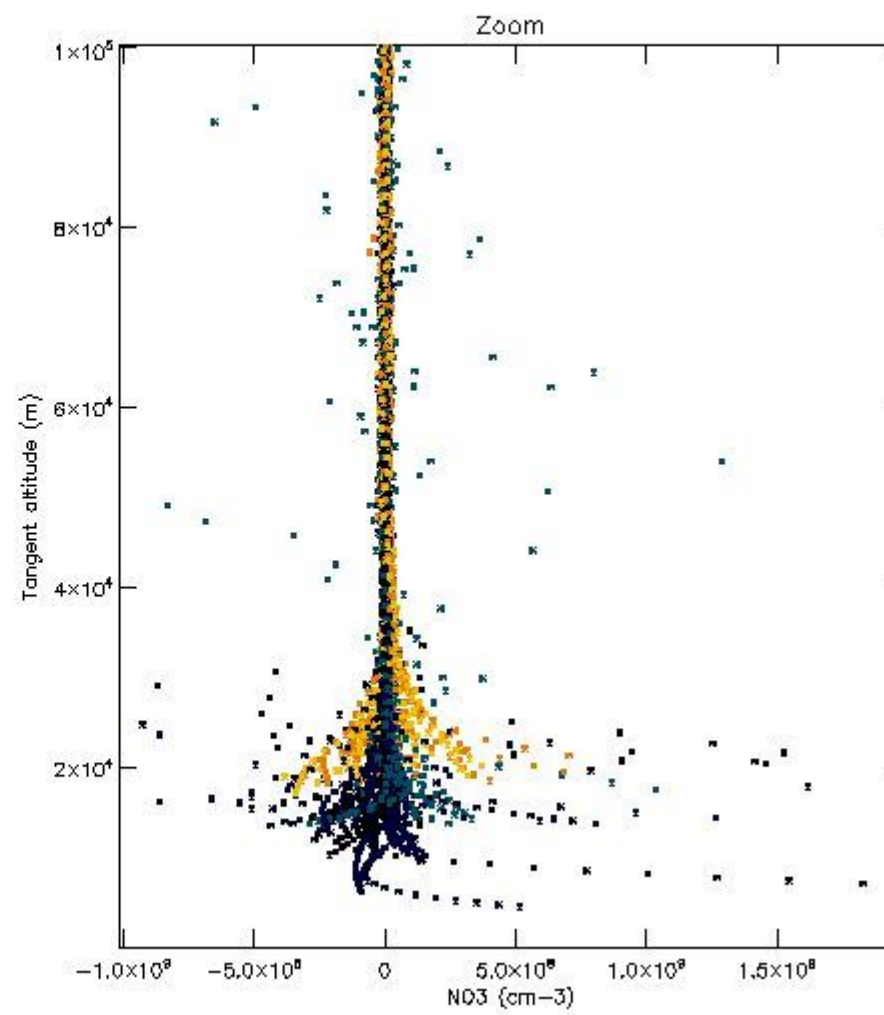
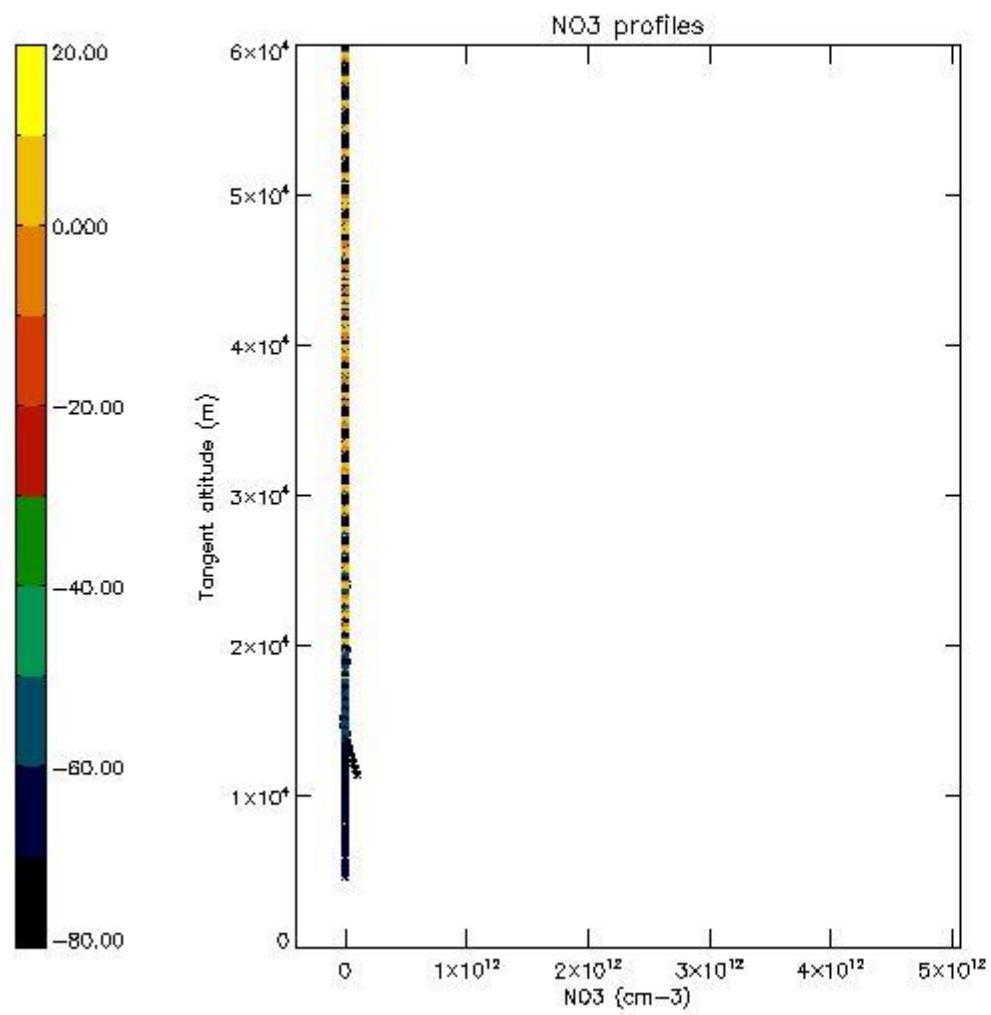
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



6. Auxiliary Data Files used for the production reported in section 2

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	29-JUL-2007 00:07:15
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	29-JUL-2007 00:07:15
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	29-JUL-2007 00:07:15

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[5.8 Plot H2O profiles \(only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors\) for all STD](#)

[6. Auxiliary Data Files used for the production reported in section 2](#)

This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

Item	Value
Time of report generation	22APR2013 22:25:16
Data source version	GOMOS/6.01
Start time of products	29-07-2007 (29JUL2007 00:00:00)
Stop time of products	30-07-2007 (30JUL2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	290
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

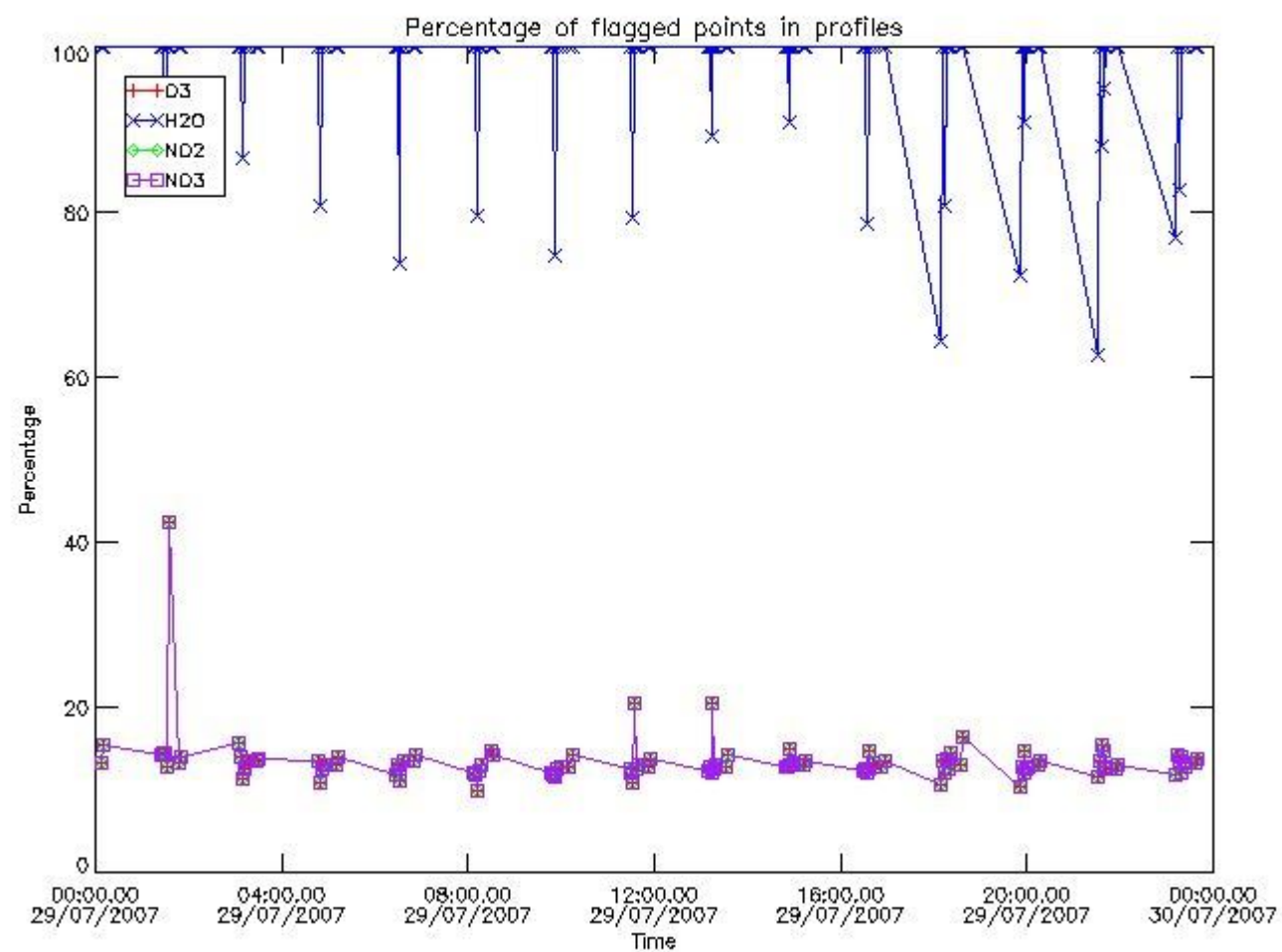
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20070729_000715_000000392060_00174_28284_3398.N1	29-JUL-2007 00:07:15	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	28284	No
2	GOM_NL__2PRFIN20070729_001006_000000372060_00174_28284_3399.N1	29-JUL-2007 00:10:06	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	28284	No
3	GOM_NL__2PRFIN20070729_001449_000000422060_00174_28284_3400.N1	29-JUL-2007 00:14:49	Straylight	41.500	148	Alp Tuc	2.8780	4100.0	83	28284	No
4	GOM_NL__2PRFIN20070729_001811_000000392060_00174_28284_3401.N1	29-JUL-2007 00:18:11	Straylight	38.500	45	Alp Pav	1.9400	26000.	77	28284	No
5	GOM_NL__2PRFIN20070729_002637_000000462060_00174_28284_3402.N1	29-JUL-2007 00:26:37	Bright	45.500	103	38Zet Sgr	2.6000	9700.0	91	28284	No
6	GOM_NL__2PRFIN20070729_002901_000000372060_00174_28284_3403.N1	29-JUL-2007 00:29:01	Bright	37.000	155	41Pi Sgr	2.9000	6600.0	74	28284	No
7	GOM_NL__2PRFIN20070729_003856_000000362060_00174_28284_3404.N1	29-JUL-2007 00:38:56	Bright	36.000	168	17Zet Aql	2.9860	11000.	72	28284	No
8	GOM_NL__2PRFIN20070729_004600_000000382060_00174_28284_3405.N1	29-JUL-2007 00:46:00	Bright	37.500	5	3Alp Lyr	0.033000	11000.	75	28284	No
9	GOM_NL__2PRFIN20070729_004943_000000362060_00174_28284_3406.N1	29-JUL-2007 00:49:43	Bright	36.000	69	33Gam Dra	2.2310	3800.0	72	28284	No
10	GOM_NL__2PRFIN20070729_005334_000000362060_00174_28284_3407.N1	29-JUL-2007 00:53:34	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	28284	No
11	GOM_NL__2PRFIN20070729_005746_000000342060_00174_28284_3408.N1	29-JUL-2007 00:57:46	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	28284	No
12	GOM_NL__2PRFIN20070729_010034_000000342060_00174_28284_3409.N1	29-JUL-2007 01:00:34	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	28284	No
13	GOM_NL__2PRFIN20070729_011321_000000342060_00174_28284_3410.N1	29-JUL-2007 01:13:21	Bright	34.000	42	34Bet Aur	1.9000	10200.	68	28284	No
14	GOM_NL__2PRFIN20070729_011819_000000422060_00174_28284_3411.N1	29-JUL-2007 01:18:19	Bright	42.000	28	12Bet Tau	1.6500	15200.	84	28284	No
15	GOM_NL__2PRFIN20070729_012022_000000382060_00174_28284_3412.N1	29-JUL-2007 01:20:22	Twilight	38.000	176	23Zet Tau	3.0200	22000.	76	28284	No
16	GOM_NL__2PRFIN20070729_012447_000000362060_00174_28284_3413.N1	29-JUL-2007 01:24:47	Dark	36.000	27	24Gam Ori	1.6360	26000.	72	28284	No
17	GOM_NL__2PRFIN20070729_012642_000000352060_00174_28284_3414.N1	29-JUL-2007 01:26:42	Dark	35.000	30	46Eps Ori	1.6940	30000.	70	28284	No
18	GOM_NL__2PRFIN20070729_012905_000000392060_00174_28284_3415.N1	29-JUL-2007 01:29:05	Dark	39.000	7	19Bet Ori	0.10000	14000.	78	28284	No
19	GOM_NL__2PRFIN20070729_013119_000000402060_00174_28284_3416.N1	29-JUL-2007 01:31:19	Dark	40.000	101	11Alp Lep	2.5820	7000.0	80	28284	No
20	GOM_NL__2PRFIN20070729_013535_000000402060_00174_28284_3417.N1	29-JUL-2007 01:35:35	Dark	39.500	108	Alp Col	2.6520	15200.	79	28284	No
21	GOM_NL__2PRFIN20070729_014752_000000392060_00175_28285_3412.N1	29-JUL-2007 01:47:52	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	28285	No
22	GOM_NL__2PRFIN20070729_015042_000000372060_00175_28285_3413.N1	29-JUL-2007 01:50:42	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	28285	No
23	GOM_NL__2PRFIN20070729_015525_000000432060_00175_28285_3414.N1	29-JUL-2007 01:55:25	Straylight	42.500	148	Alp Tuc	2.8780	4100.0	85	28285	No
24	GOM_NL__2PRFIN20070729_015847_000000412060_00175_28285_3415.N1	29-JUL-2007 01:58:47	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	28285	No
25	GOM_NL__2PRFIN20070729_020713_000000522060_00175_28285_3416.N1	29-JUL-2007 02:07:13	Bright	52.000	103	38Zet Sgr	2.6000	9700.0	104	28285	No
26	GOM_NL__2PRFIN20070729_020937_000000382060_00175_28285_3417.N1	29-JUL-2007 02:09:37	Bright	37.500	155	41Pi Sgr	2.9000	6600.0	75	28285	No
27	GOM_NL__2PRFIN20070729_021932_000000352060_00175_28285_3418.N1	29-JUL-2007 02:19:32	Bright	35.000	168	17Zet Aql	2.9860	11000.	70	28285	No
28	GOM_NL__2PRFIN20070729_022636_000000382060_00175_28285_3419.N1	29-JUL-2007 02:26:36	Bright	38.000	5	3Alp Lyr	0.033000	11000.	76	28285	No
29	GOM_NL__2PRFIN20070729_023019_000000332060_00175_28285_3420.N1	29-JUL-2007 02:30:19	Bright	32.500	69	33Gam Dra	2.2310	3800.0	65	28285	No
30	GOM_NL__2PRFIN20070729_023410_000000342060_00175_28285_3421.N1	29-JUL-2007 02:34:10	Bright	34.000	119	14Eta Dra	2.7270	4700.0	68	28285	No
31	GOM_NL__2PRFIN20070729_023822_000000332060_00175_28285_3422.N1	29-JUL-2007 02:38:22	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	28285	No
32	GOM_NL__2PRFIN20070729_024110_000000332060_00175_28285_3423.N1	29-JUL-2007 02:41:10	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	28285	No
33	GOM_NL__2PRFIN20070729_025357_000000342060_00175_28285_3424.N1	29-JUL-2007 02:53:57	Bright	34.000	42	34Bet Aur	1.9000	10200.	68	28285	No
34	GOM_NL__2PRFIN20070729_025856_000000402060_00175_28285_3425.N1	29-JUL-2007 02:58:56	Bright	39.500	28	12Bet Tau	1.6500	15200.	79	28285	No
35	GOM_NL__2PRFIN20070729_030058_000000382060_00175_28285_3426.N1	29-JUL-2007 03:00:58	Twilight	37.500	176	23Zet Tau	3.0200	22000.	75	28285	No
36	GOM_NL__2PRFIN20070729_030523_000000362060_00175_28285_3427.N1	29-JUL-2007 03:05:23	Dark	36.000	27	24Gam Ori	1.6360	26000.	72	28285	No
37	GOM_NL__2PRFIN20070729_030718_000000372060_00175_28285_3428.N1	29-JUL-2007 03:07:18	Dark	36.500	30	46Eps Ori	1.6940	30000.	73	28285	No
38	GOM_NL__2PRFIN20070729_030941_000000452060_00175_28285_3429.N1	29-JUL-2007 03:09:41	Dark	45.000	7	19Bet Ori	0.10000	14000.	90	28285	No
39	GOM_NL__2PRFIN20070729_031156_000000412060_00175_28285_3430.N1	29-JUL-2007 03:11:56	Dark	40.500	101	11Alp Lep	2.5820	7000.0	81	28285	No
40	GOM_NL__2PRFIN20070729_031611_000000382060_00175_28285_3431.N1	29-JUL-2007 03:16:11	Dark	37.500	108	Alp Col	2.6520	15200.	75	28285	No
41	GOM_NL__2PRFIN20070729_032828_000000382060_00176_28286_3418.N1	29-JUL-2007 03:28:28	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	28286	No
42	GOM_NL__2PRFIN20070729_033118_000000372060_00176_28286_3419.N1	29-JUL-2007 03:31:18	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	28286	No

279	GOM_NL__2PRFIN20070729_231150_000000442060_00187_28297_3655.N1	29-JUL-2007 23:11:50	Dark	43.500	14	58Alp Ori	0.87000	3000.0	87	28297	No
280	GOM_NL__2PRFIN20070729_231433_000000362060_00187_28297_3656.N1	29-JUL-2007 23:14:33	Dark	36.000	30	46Eps Ori	1.6940	30000.	72	28297	No
281	GOM_NL__2PRFIN20070729_231657_000000382060_00187_28297_3657.N1	29-JUL-2007 23:16:57	Dark	38.000	7	19Bet Ori	0.10000	14000.	76	28297	No
282	GOM_NL__2PRFIN20070729_231829_000000372060_00187_28297_3658.N1	29-JUL-2007 23:18:29	Dark	36.500	47	2Bet CMa	1.9760	28000.	73	28297	No
283	GOM_NL__2PRFIN20070729_232004_000000422060_00187_28297_3659.N1	29-JUL-2007 23:20:04	Dark	42.000	139	9Bet Lep	2.8330	5600.0	84	28297	No
284	GOM_NL__2PRFIN20070729_232325_000000402060_00187_28297_3660.N1	29-JUL-2007 23:23:25	Dark	40.000	108	Alp Col	2.6520	15200.	80	28297	No
285	GOM_NL__2PRFIN20070729_233546_000000392060_00188_28298_3652.N1	29-JUL-2007 23:35:46	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	28298	No
286	GOM_NL__2PRFIN20070729_233832_000000372060_00188_28298_3653.N1	29-JUL-2007 23:38:32	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	28298	No
287	GOM_NL__2PRFIN20070729_234318_000000432060_00188_28298_3654.N1	29-JUL-2007 23:43:18	Straylight	42.500	148	Alp Tuc	2.8780	4100.0	85	28298	No
288	GOM_NL__2PRFIN20070729_234638_000000392060_00188_28298_3655.N1	29-JUL-2007 23:46:38	Straylight	38.500	45	Alp Pav	1.9400	26000.	77	28298	No
289	GOM_NL__2PRFIN20070729_235503_000000392060_00188_28298_3656.N1	29-JUL-2007 23:55:03	Bright	38.500	103	38Zet Sgr	2.6000	9700.0	77	28298	No
290	GOM_NL__2PRFIN20070729_235726_000000372060_00188_28298_3657.N1	29-JUL-2007 23:57:26	Bright	37.000	155	41Pi Sgr	2.9000	6600.0	74	28298	No

3. Quality information per product

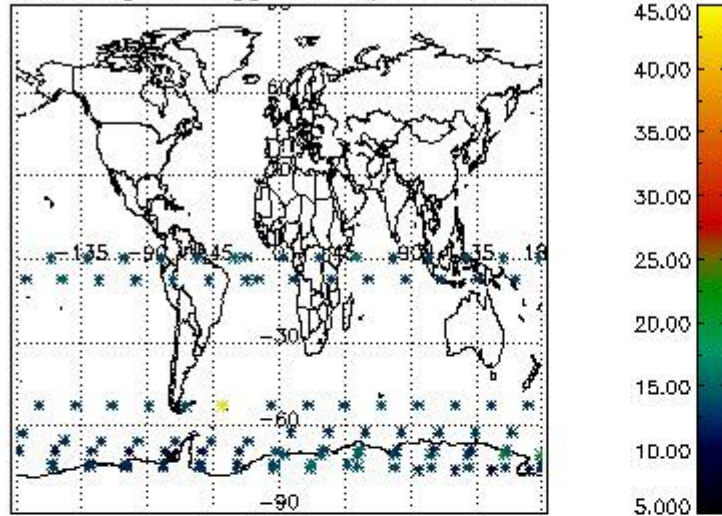
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

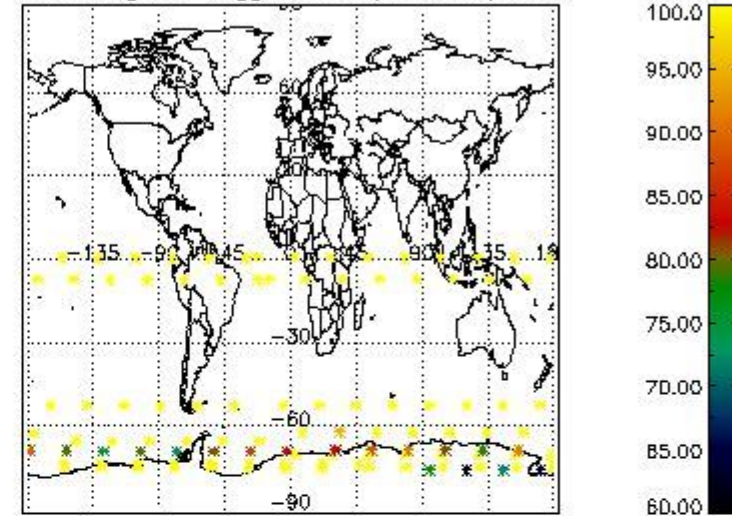


3.2 Plot quality information per product (world map)

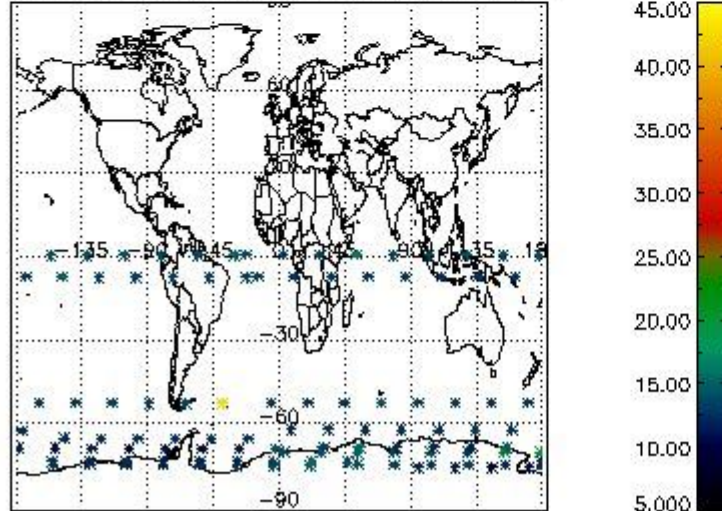
Percentage of flagged data per O3 profile



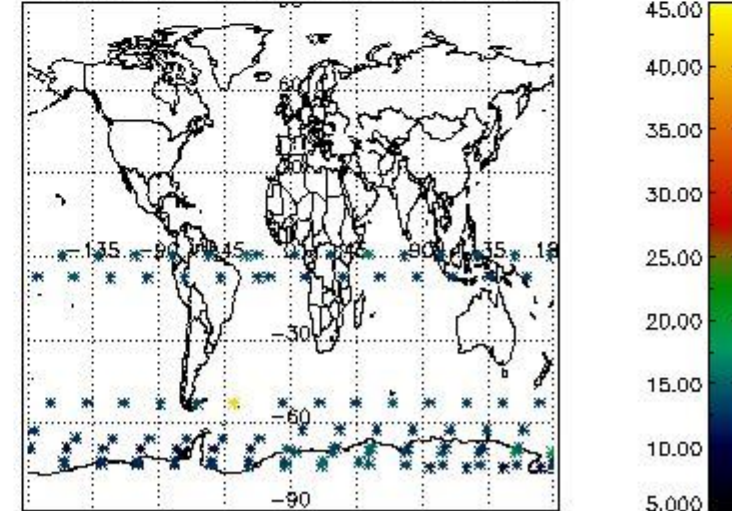
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

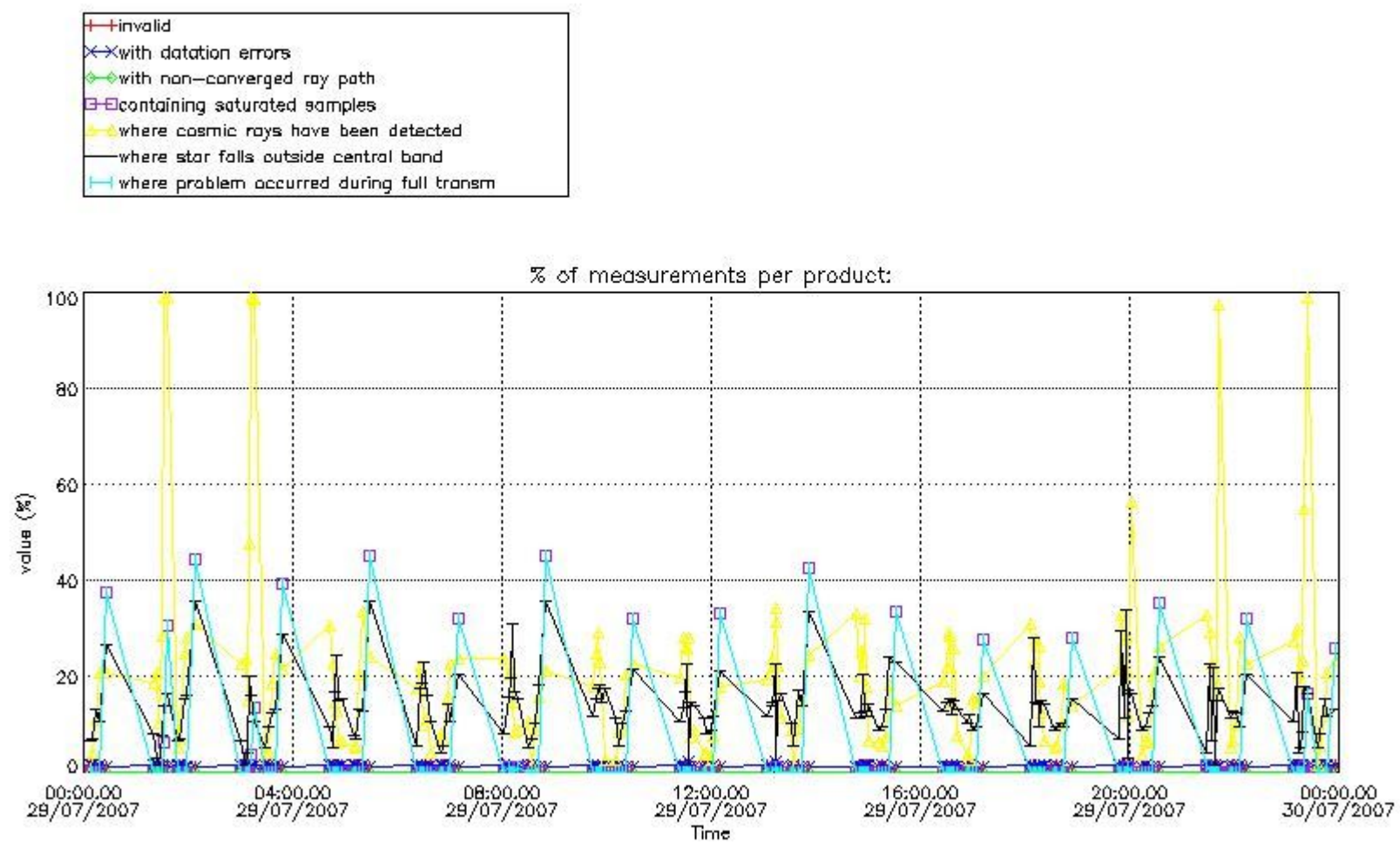


4. Level 1 quality information per product

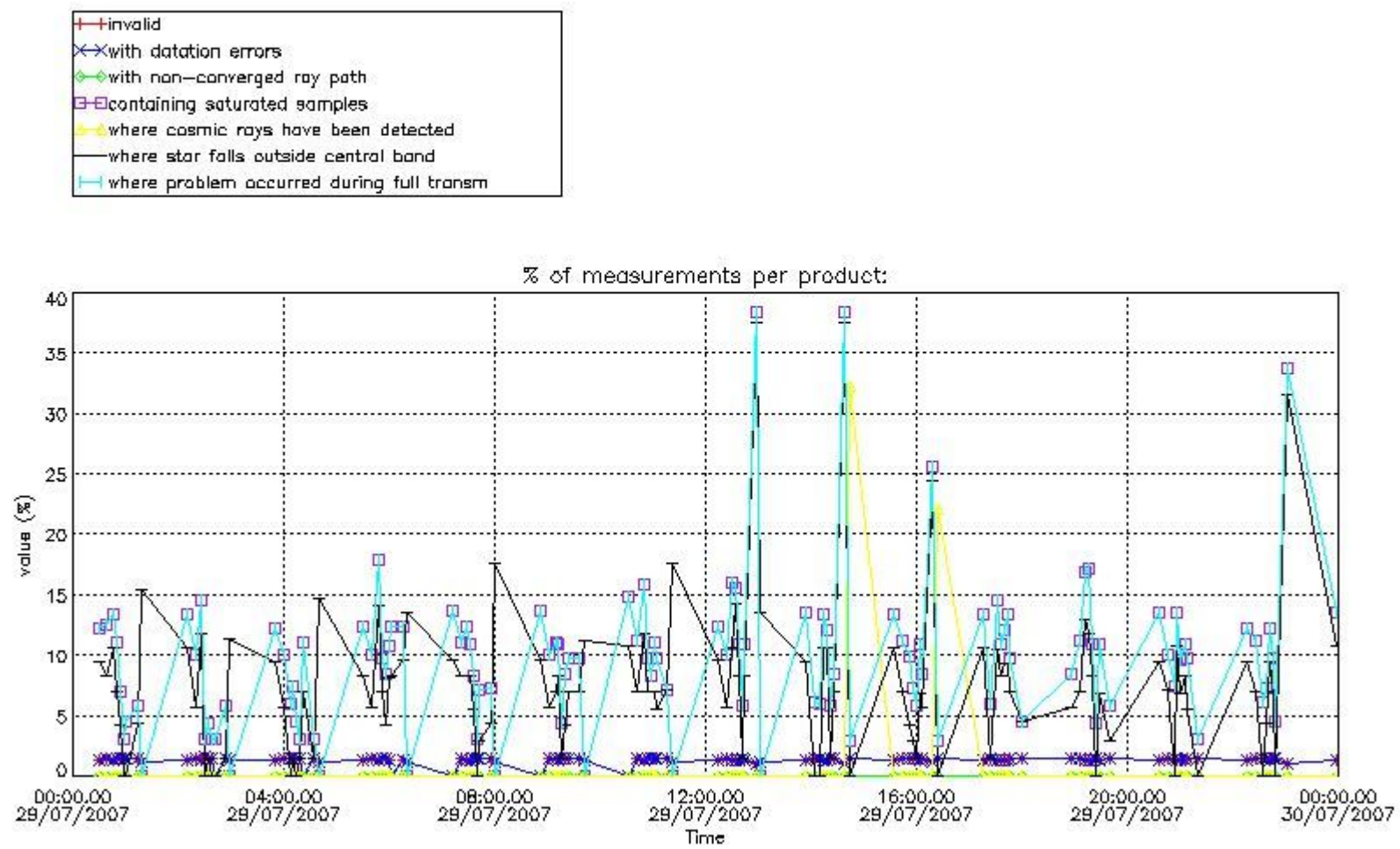
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

4.1 Plot quality information per product (time dependant) coming from level 1b processing

4.1.1 Plot level 1 quality information per product (time dependant): ENVISAT ASCENDING passes

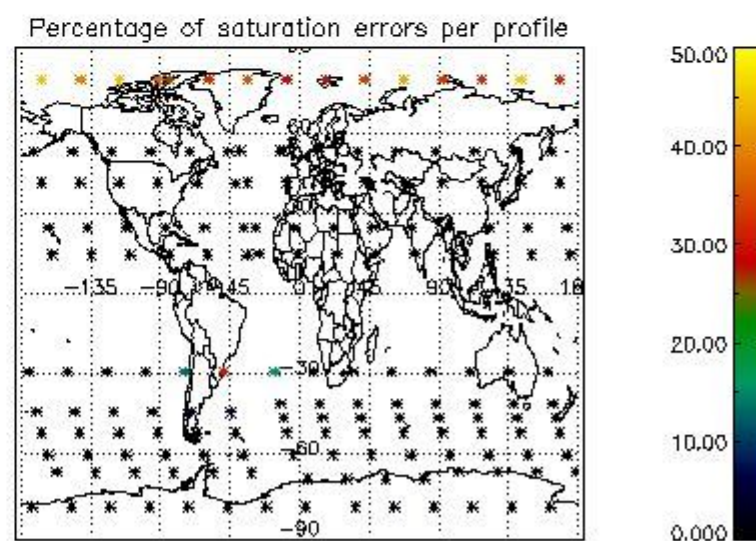
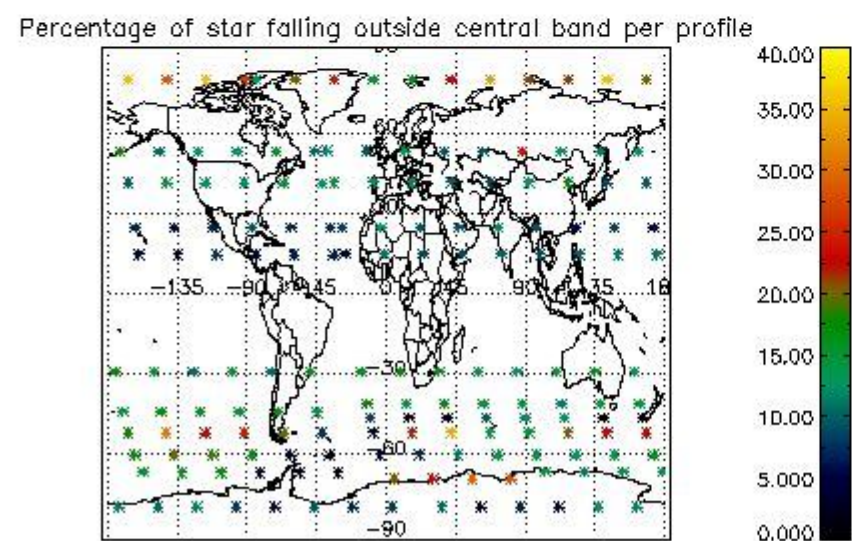
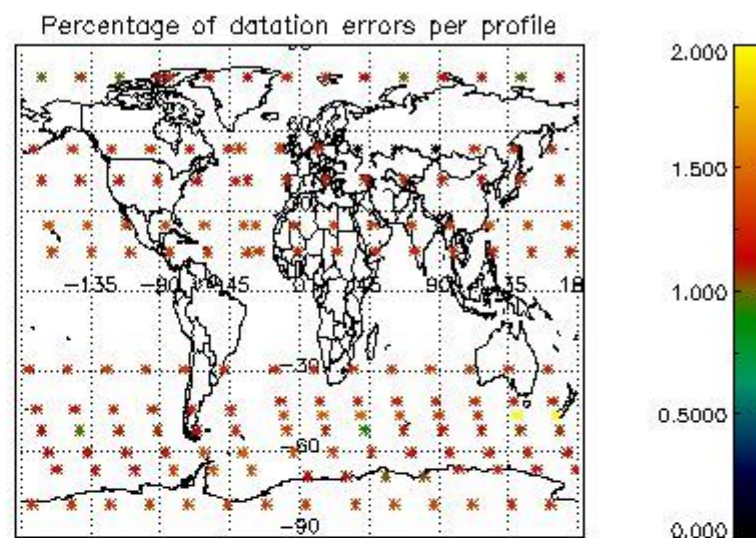
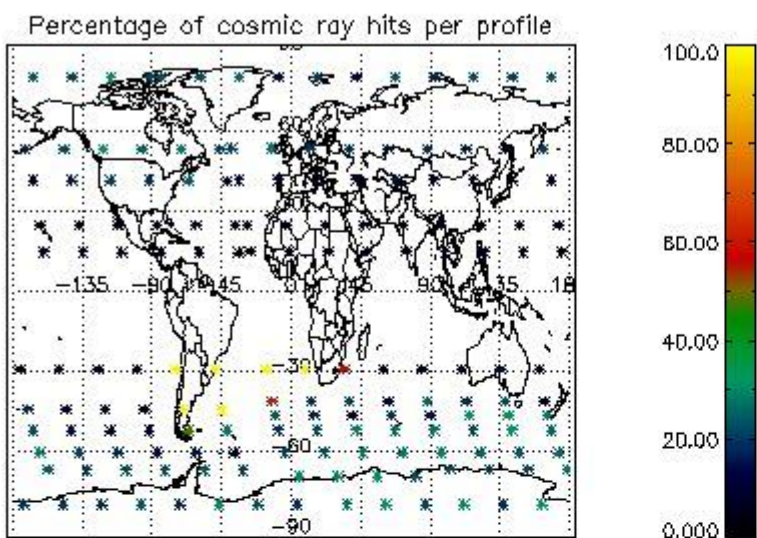


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

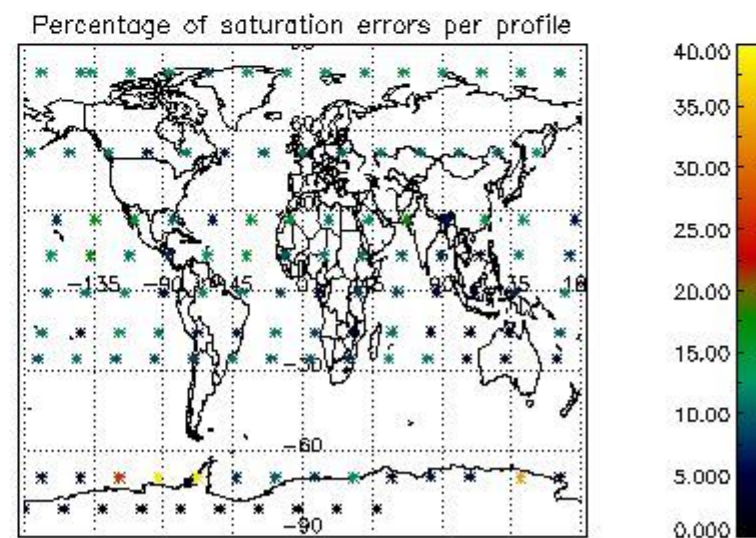
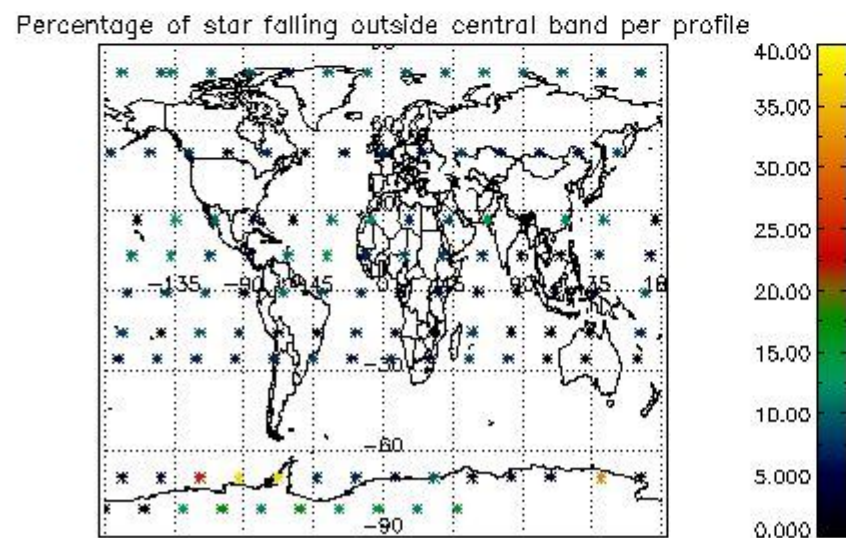
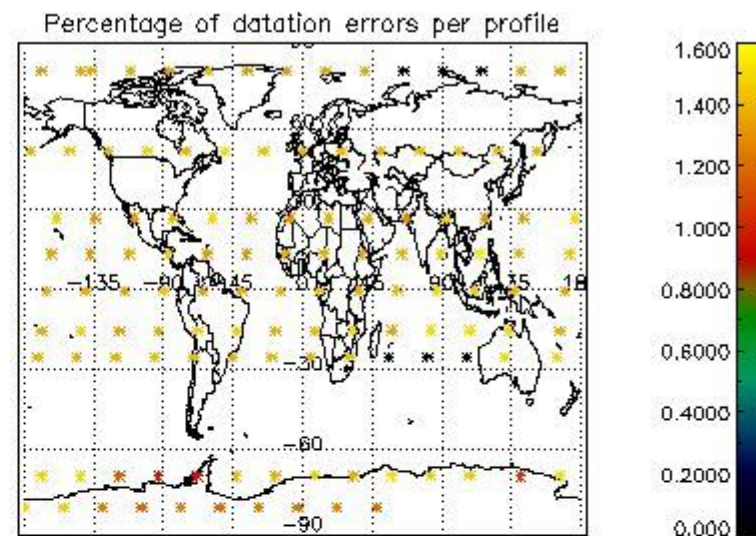
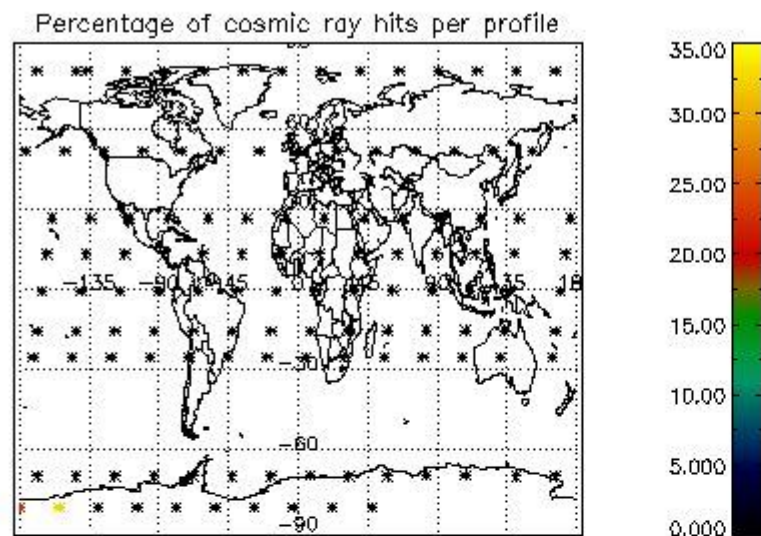


4.2 Plot quality information per product coming from level 1b processing (world map)

4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes



4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/o3_std of the level 2 products. The table below shows the statistics for given STD ranges.

The statistics are given with respect to the overall valid production:

- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

The 'Criteria' is applied to valid points of dark limb products:

- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

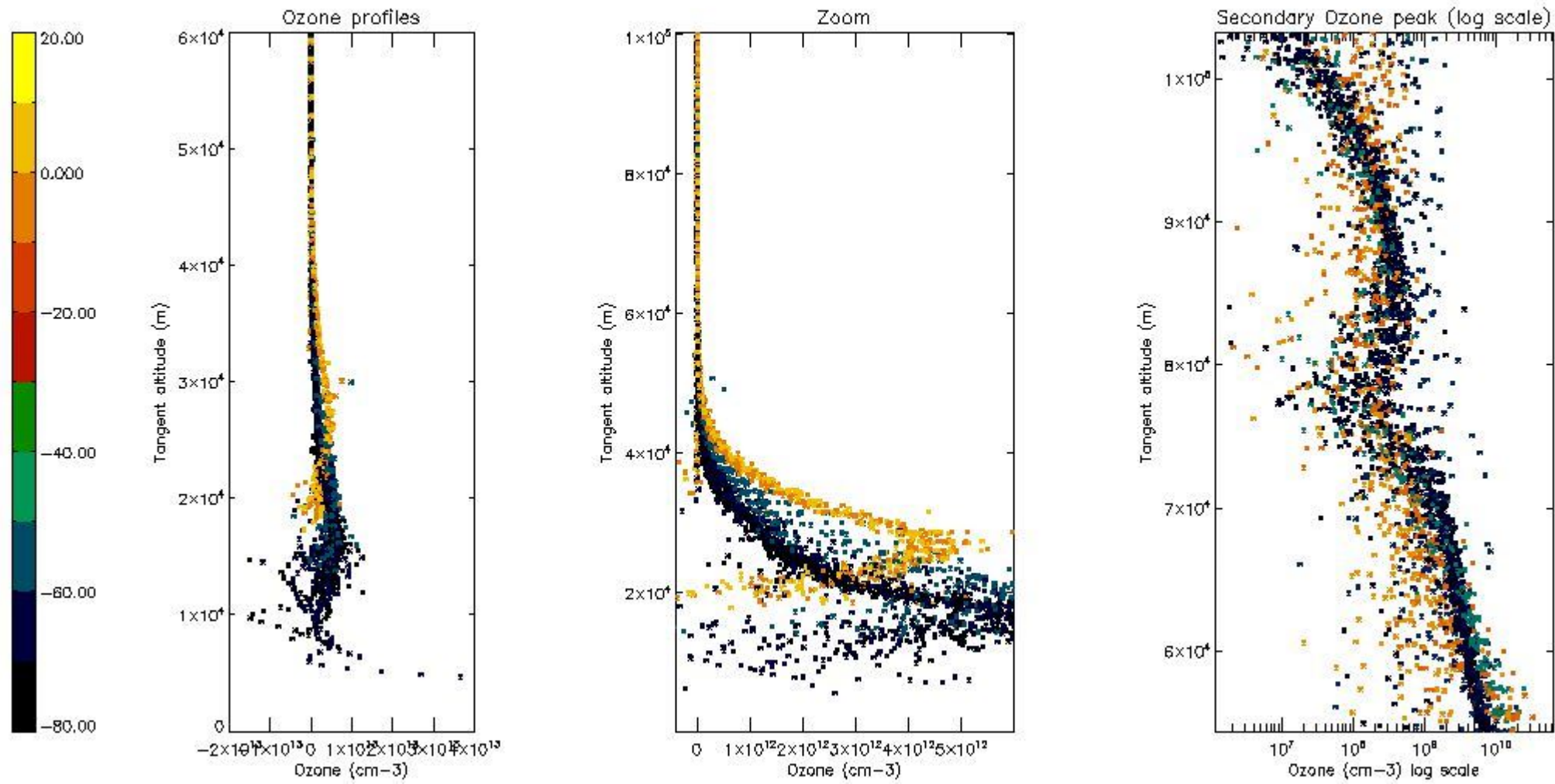
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	40
STD < 20	21

STD < 10	17
STD < 5	11

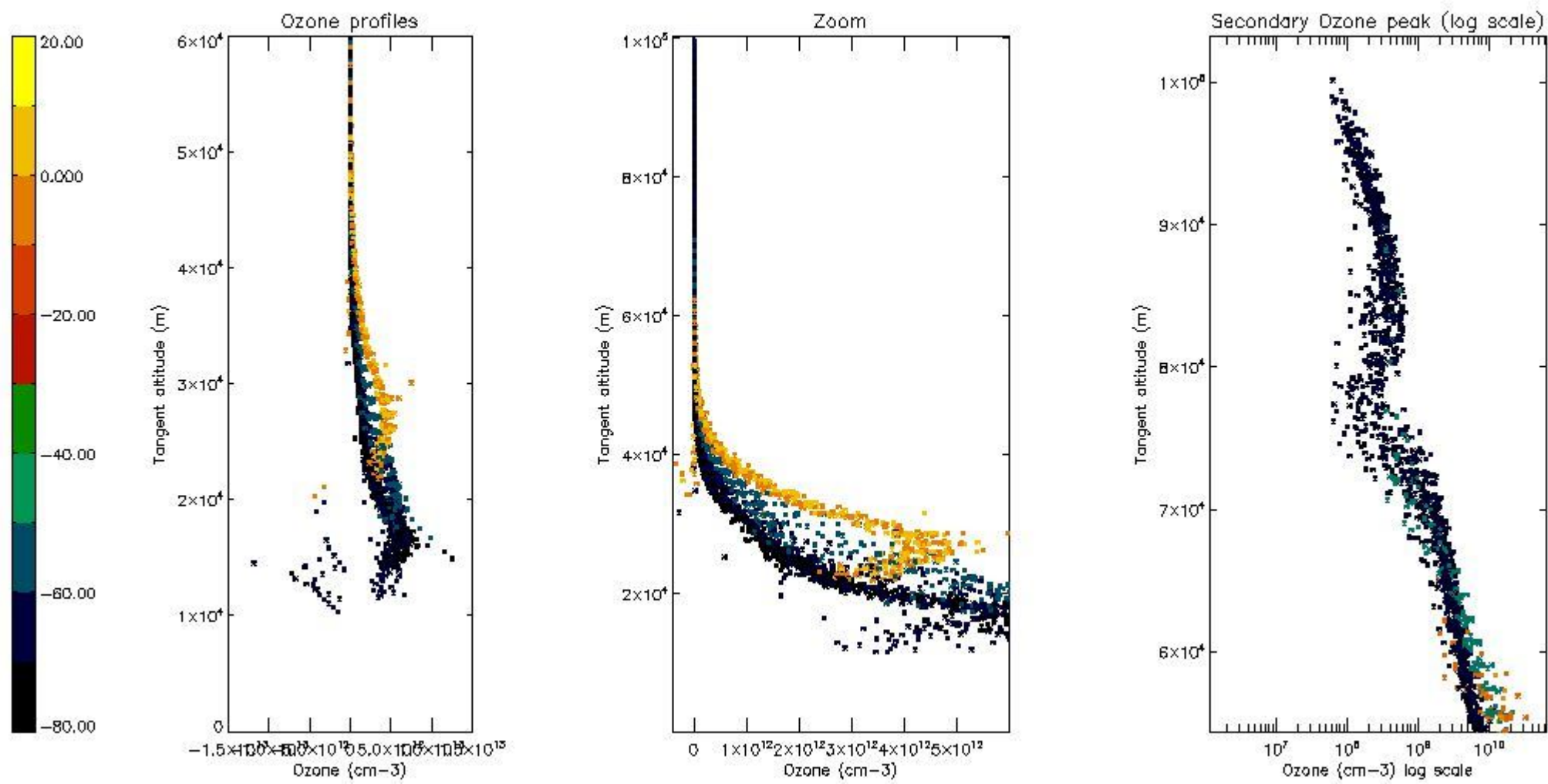
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



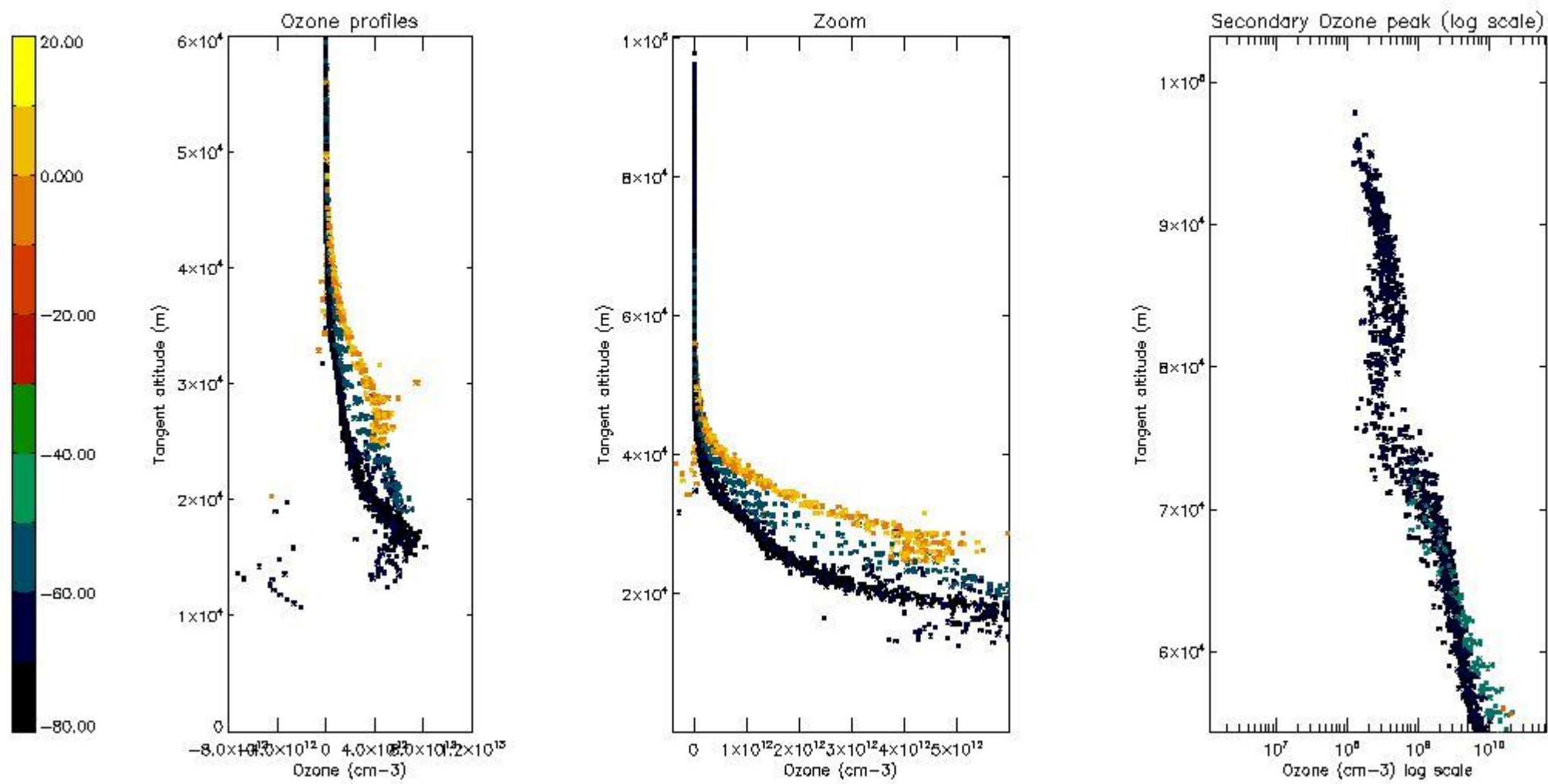
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



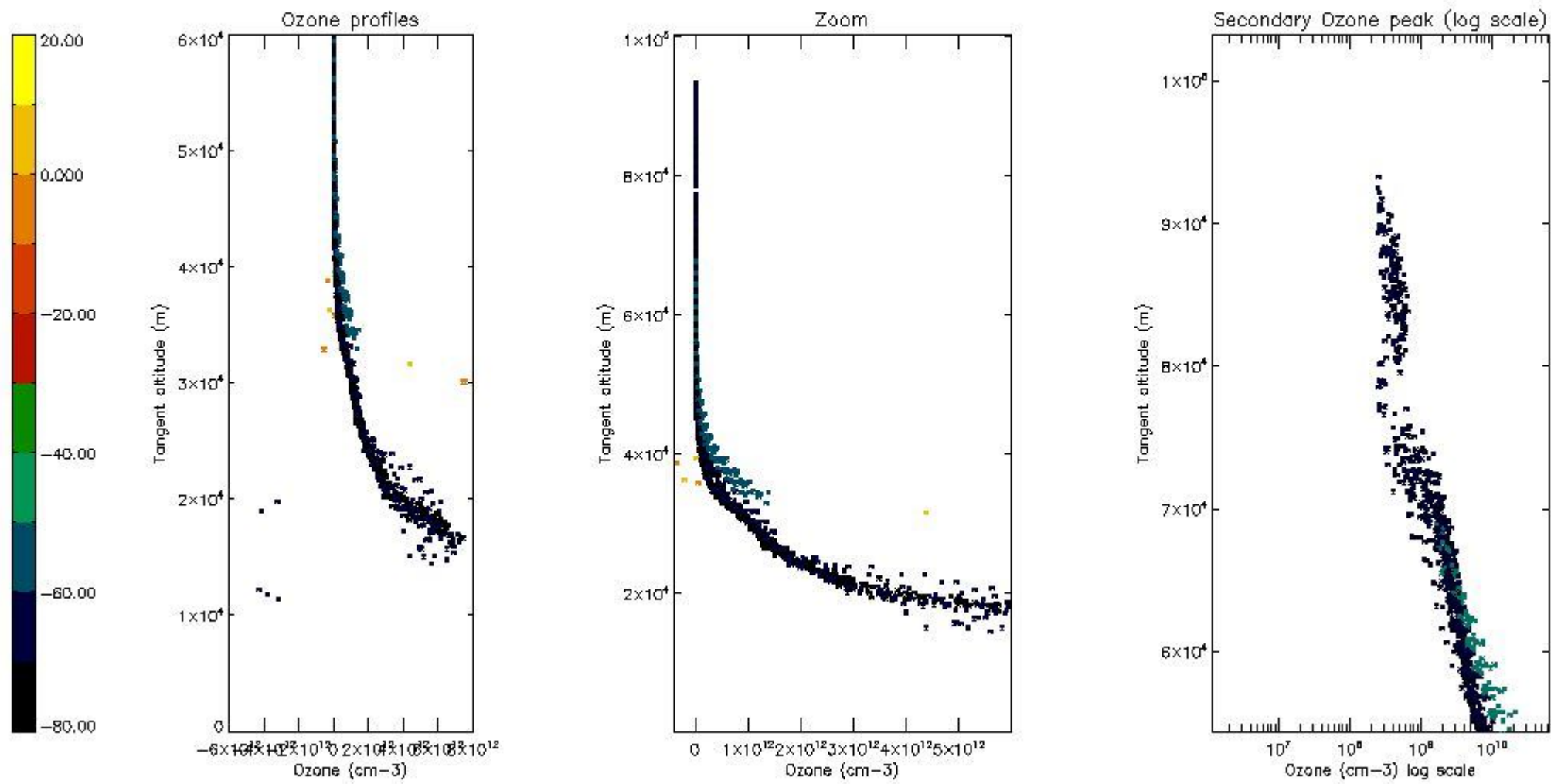
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



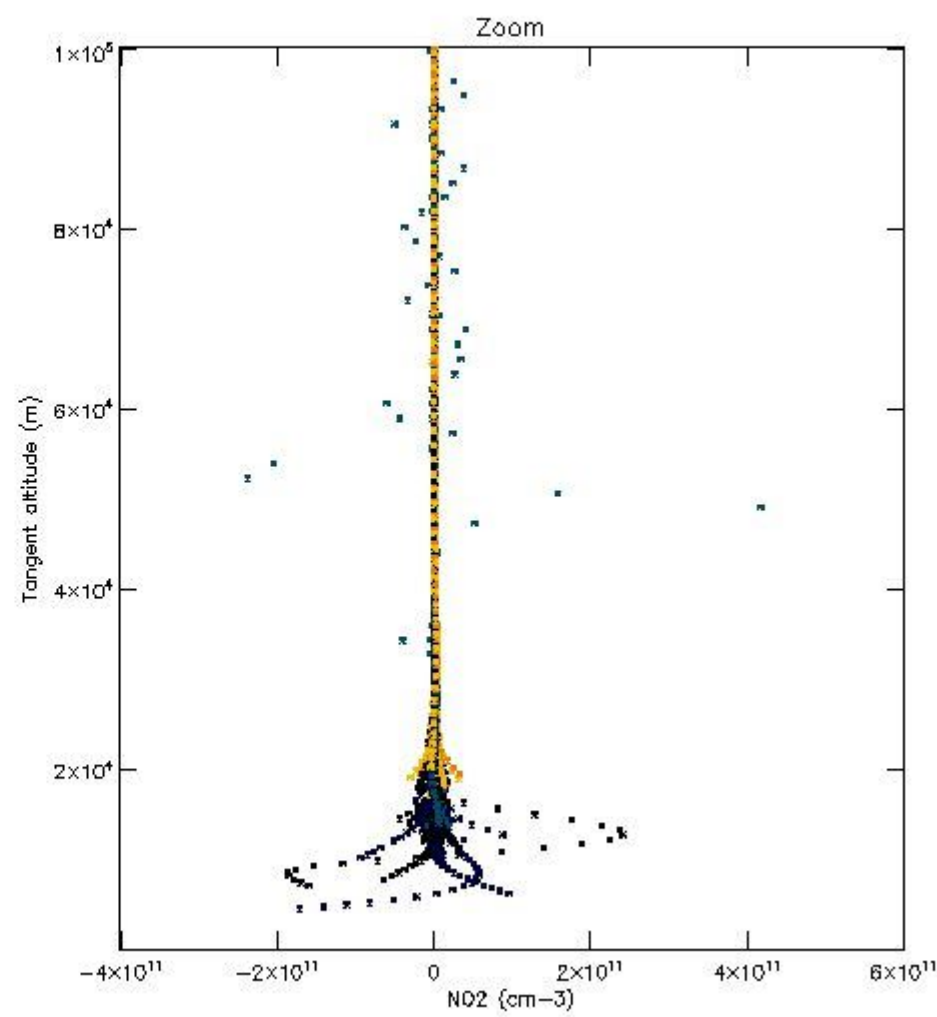
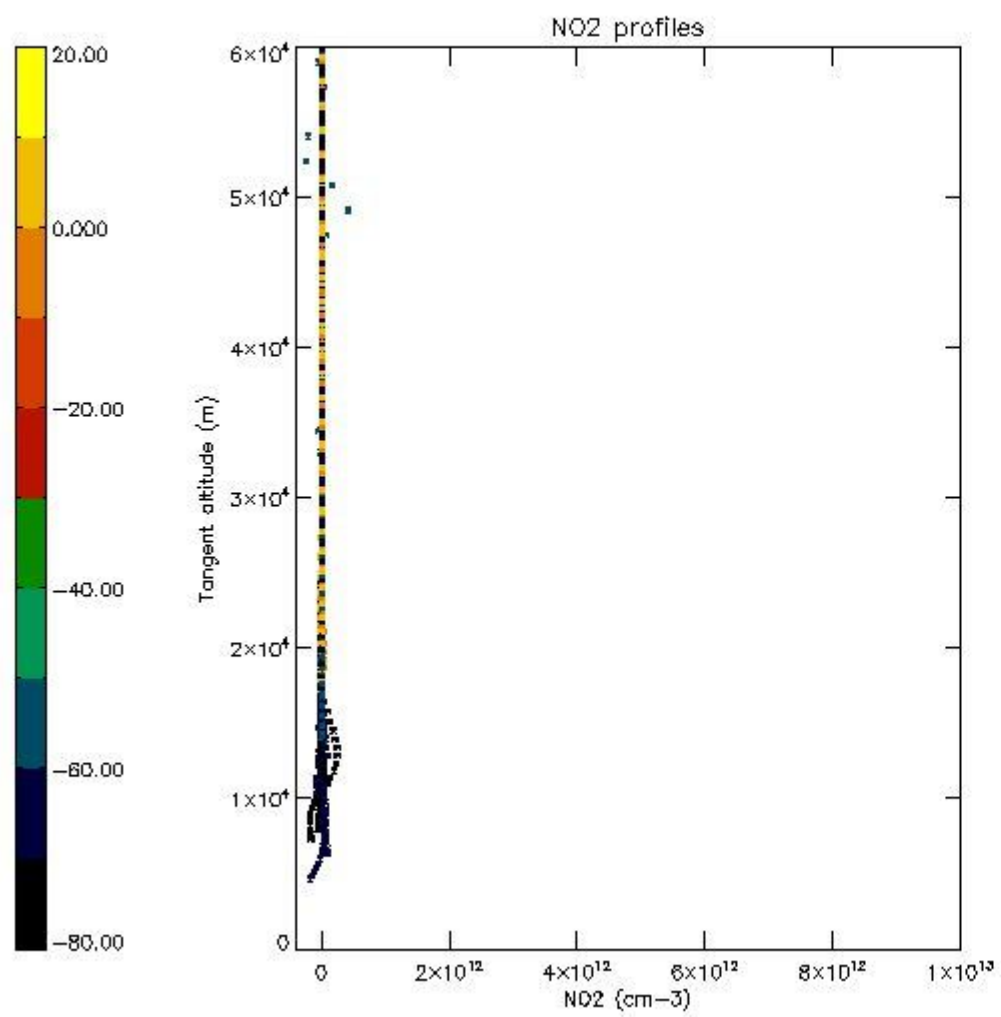
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



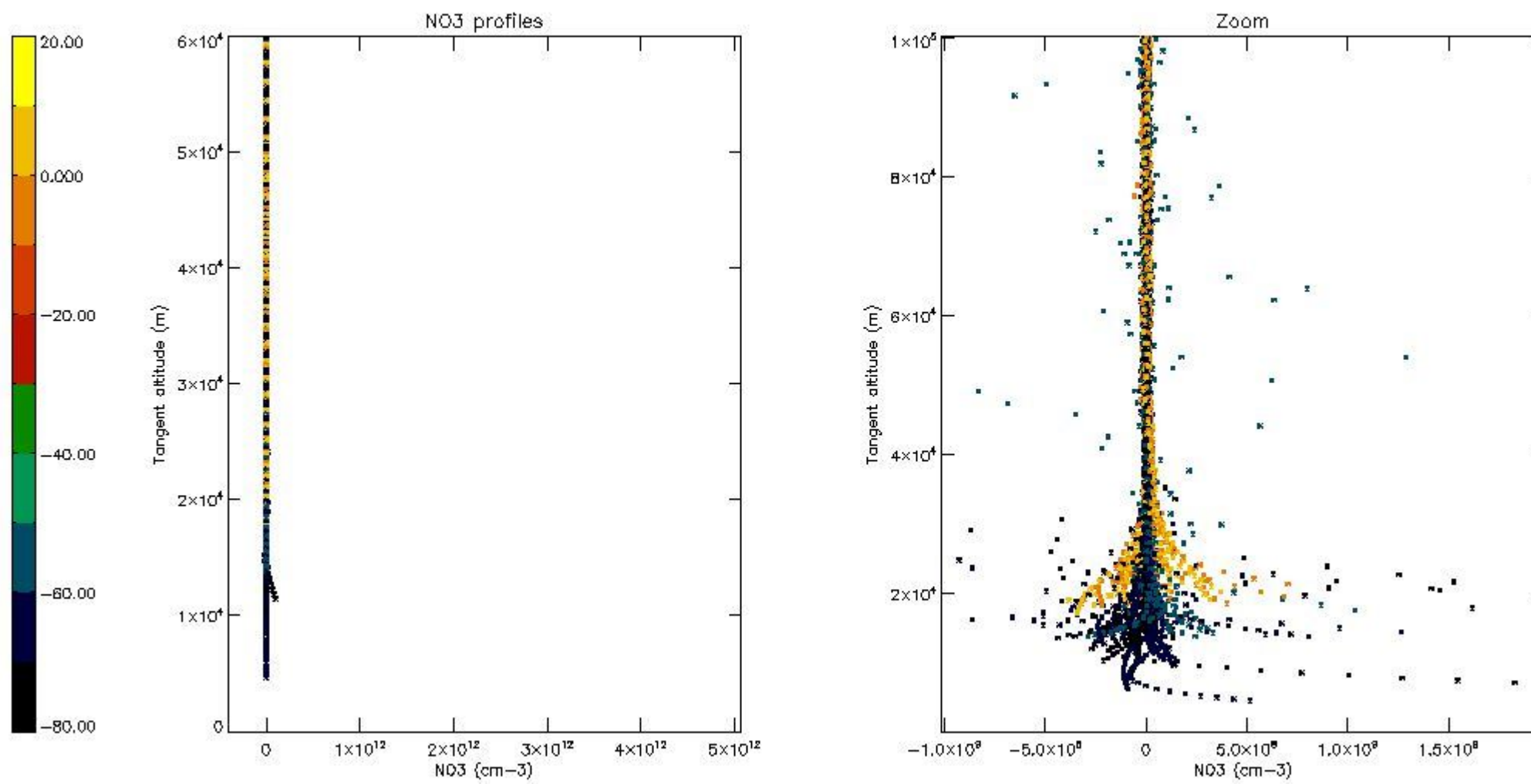
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



5.7 Plot NO3 profiles for all STD (dark without errors)

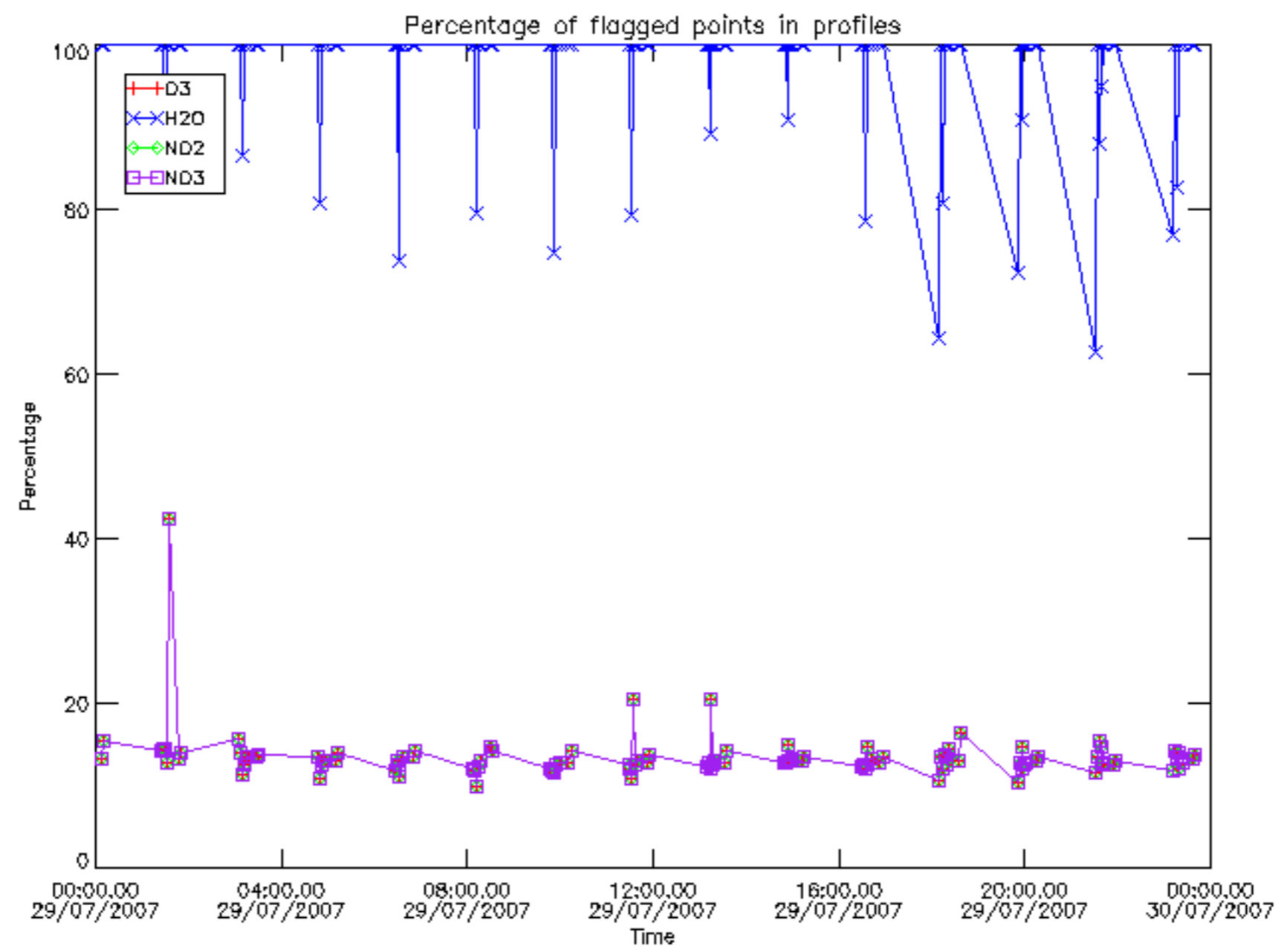
The colorbar represents the latitude.



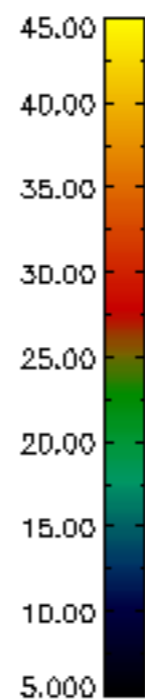
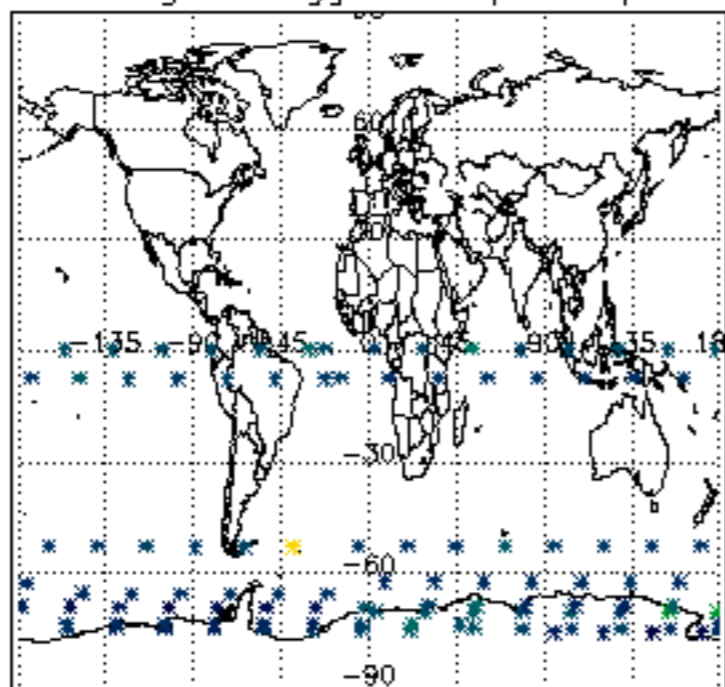
6. Auxiliary Data Files used for the production reported in section 2

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

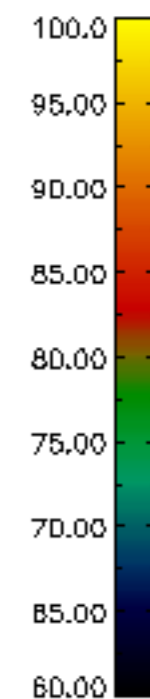
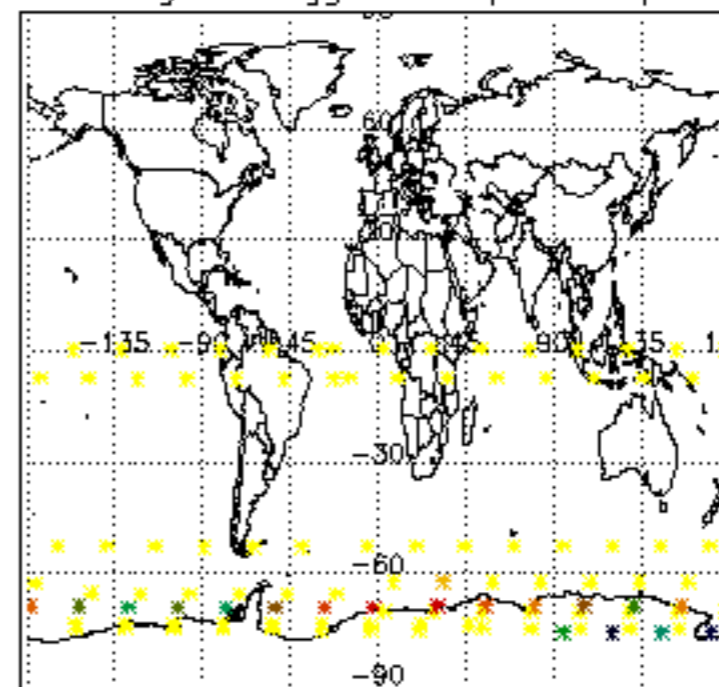
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	29-JUL-2007 00:07:15
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	29-JUL-2007 00:07:15
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	29-JUL-2007 00:07:15



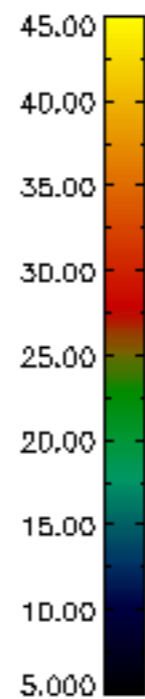
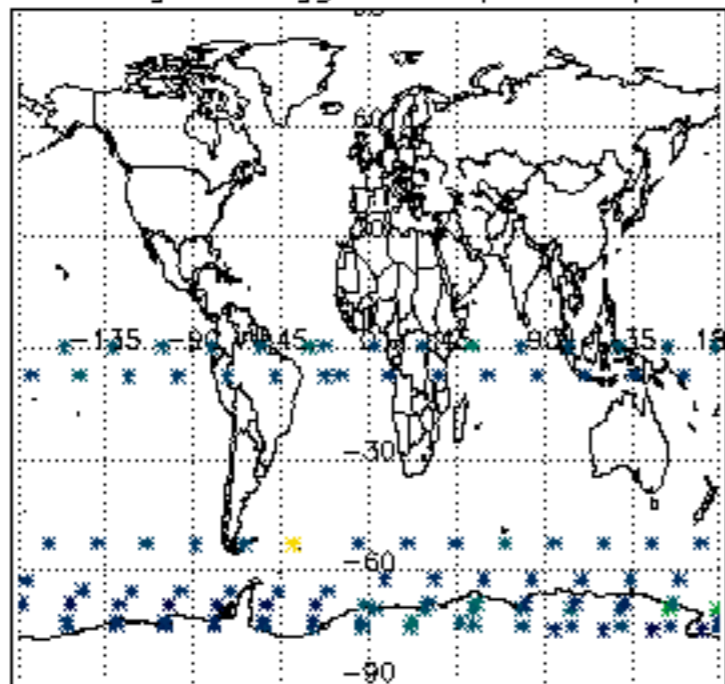
Percentage of flagged data per D3 profile



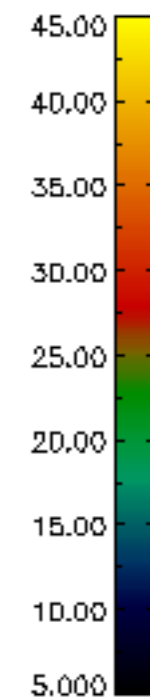
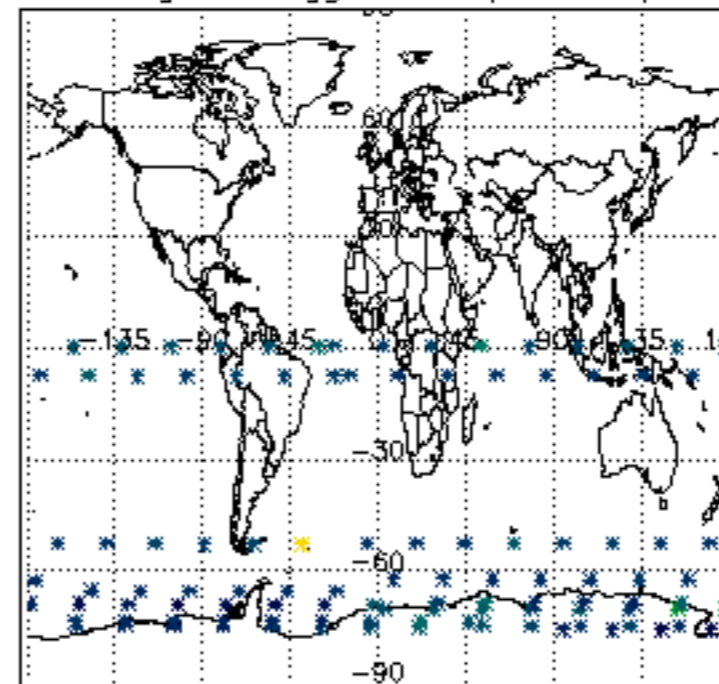
Percentage of flagged data per H2O profile

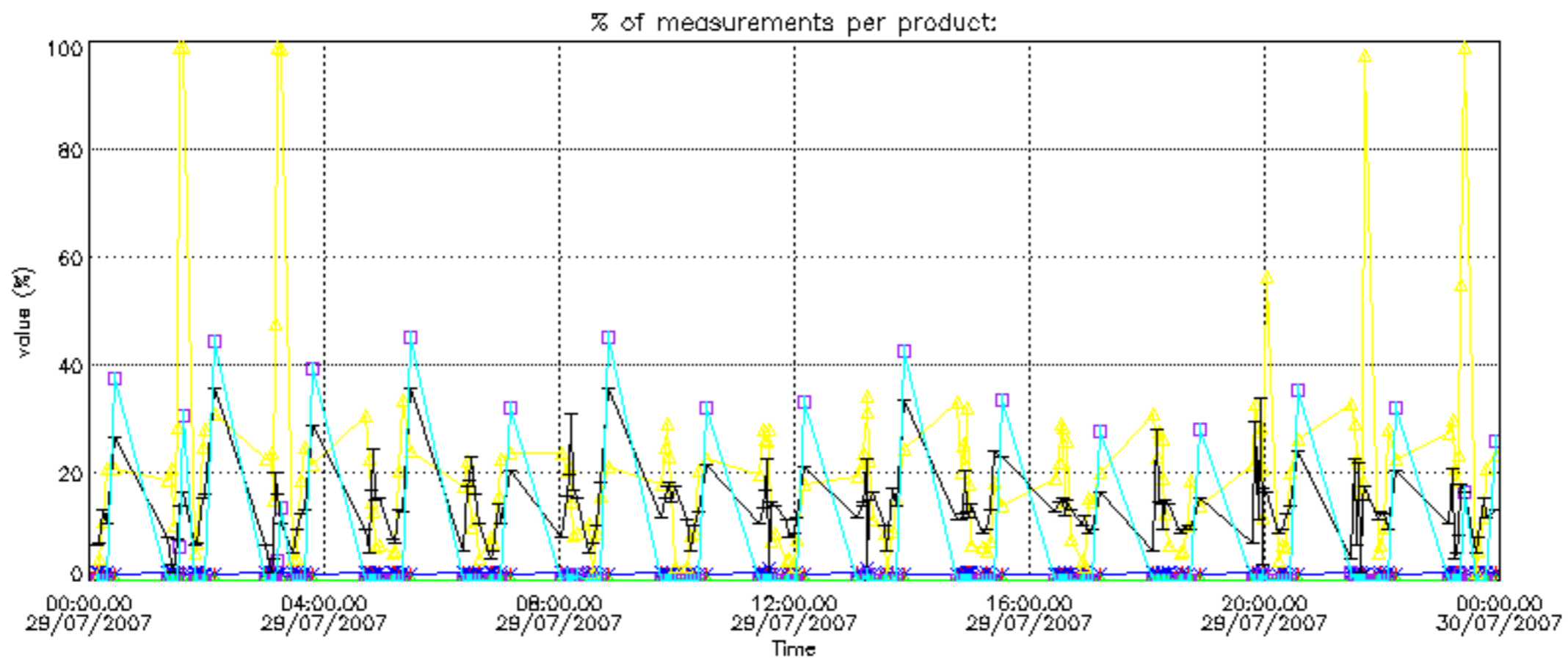
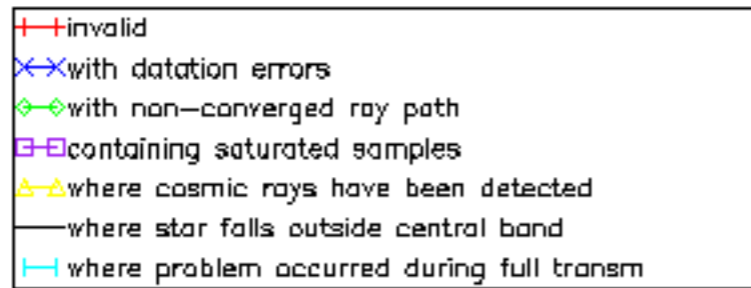


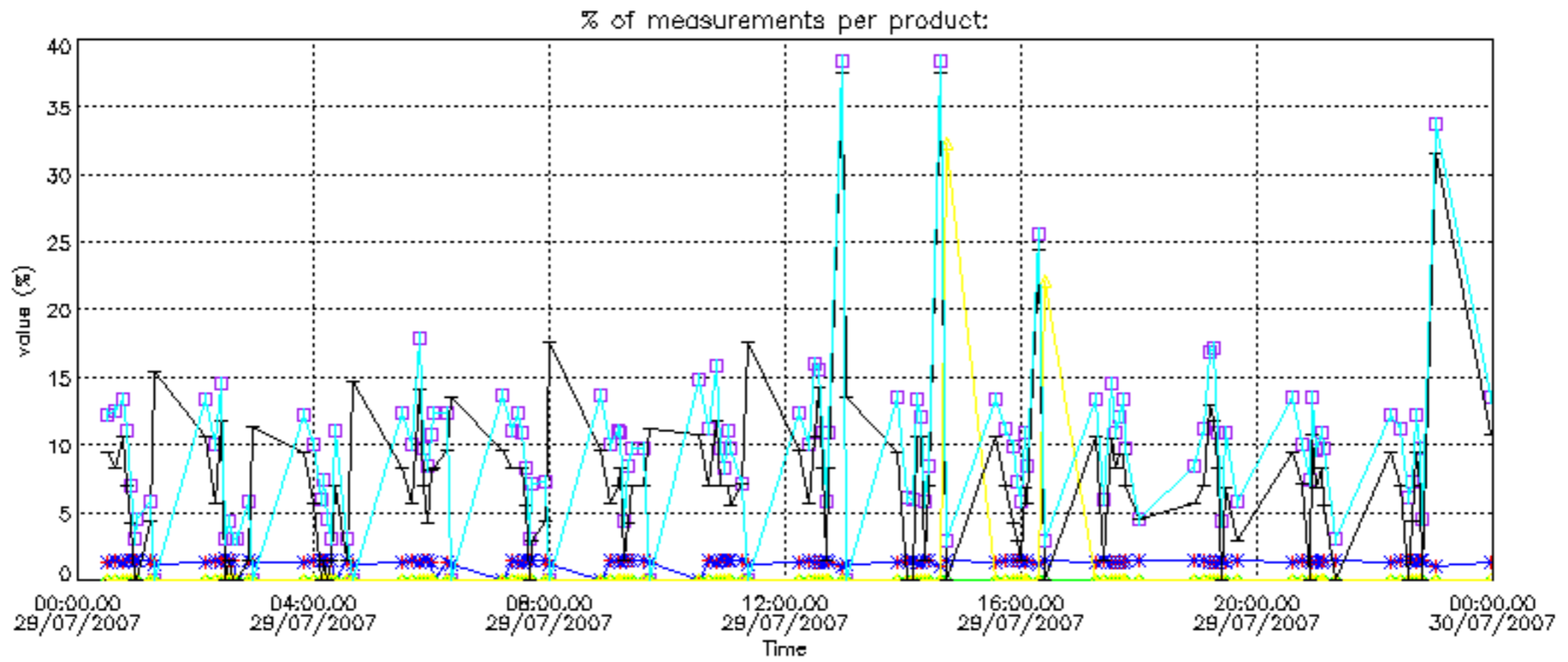
Percentage of flagged data per NO2 profile



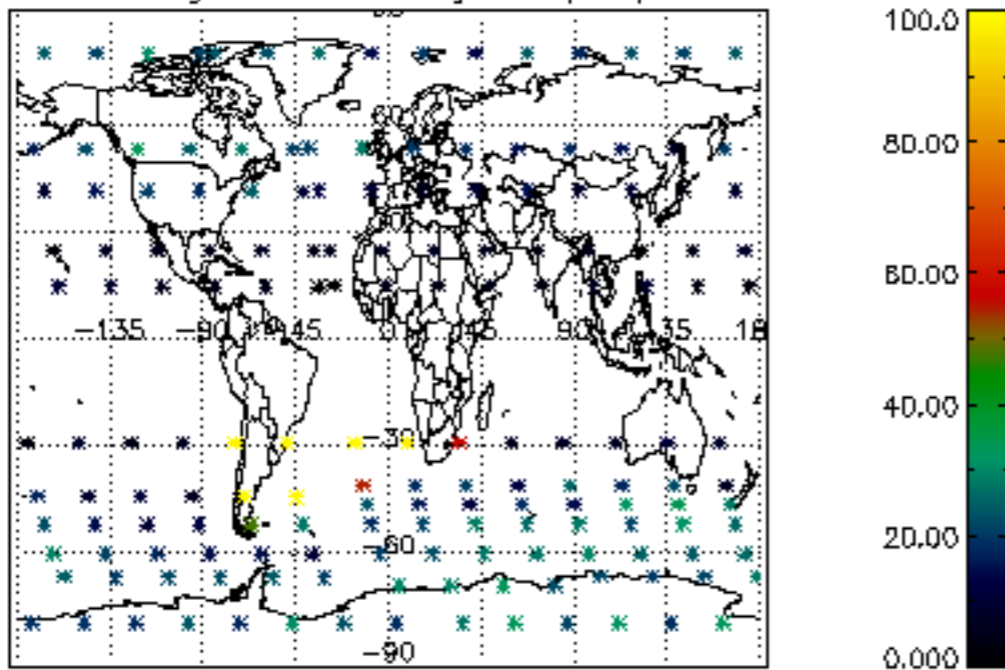
Percentage of flagged data per NO3 profile



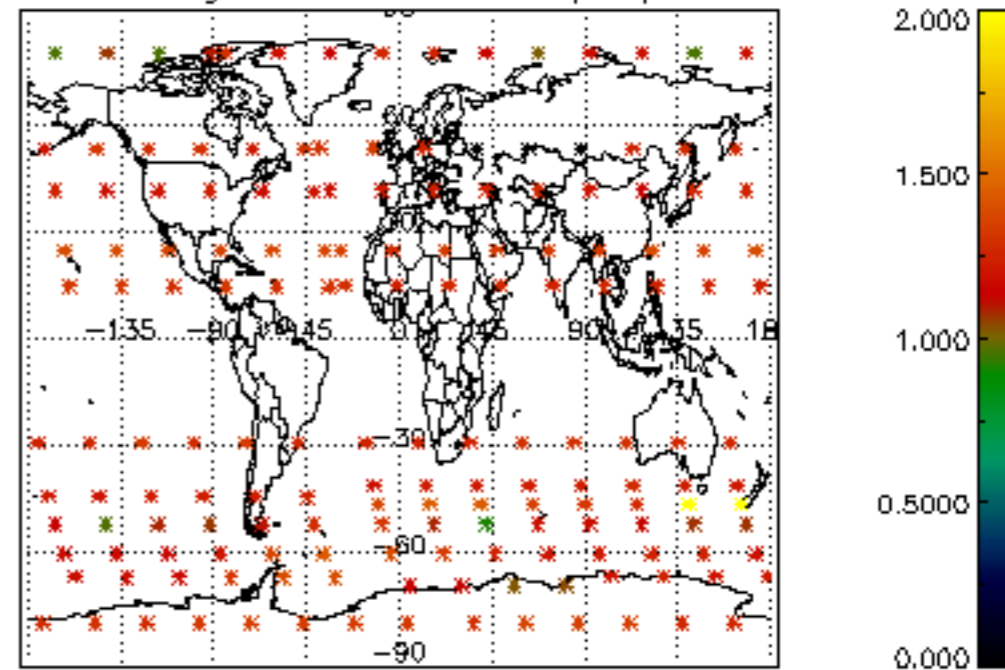




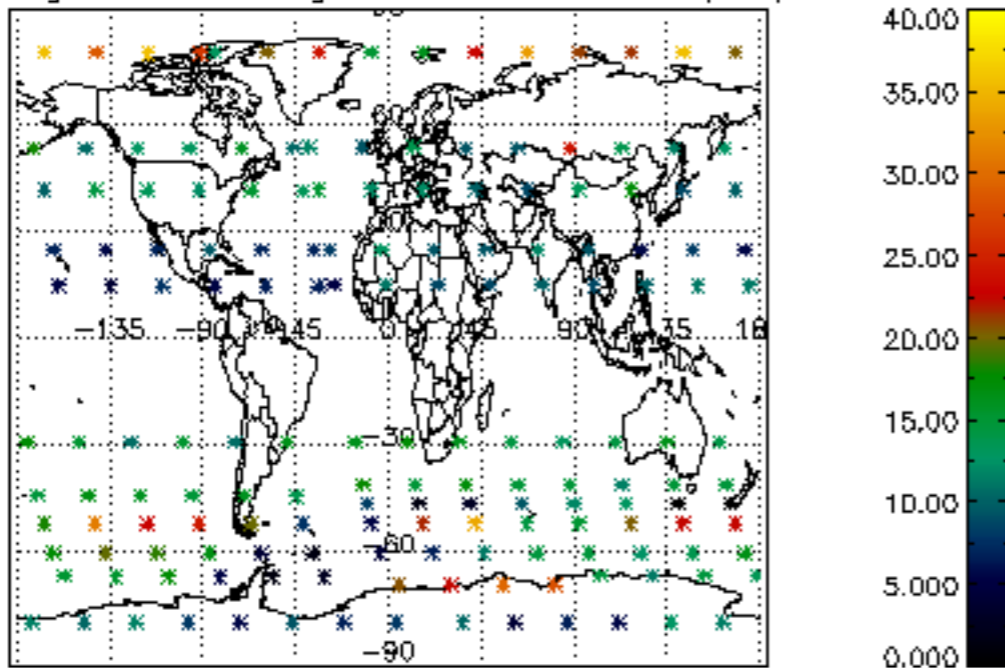
Percentage of cosmic ray hits per profile



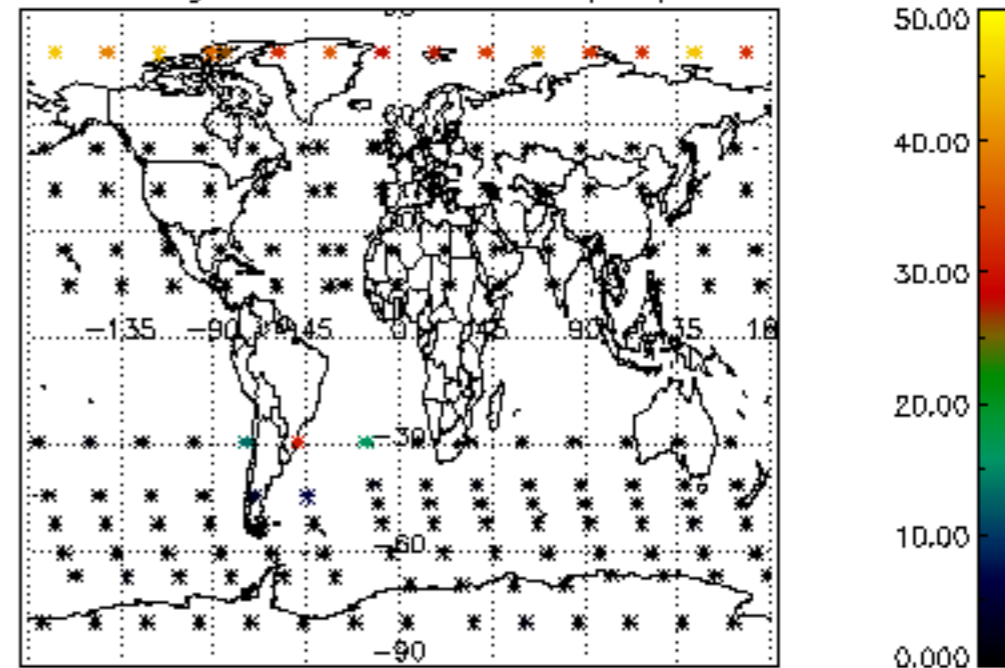
Percentage of datation errors per profile



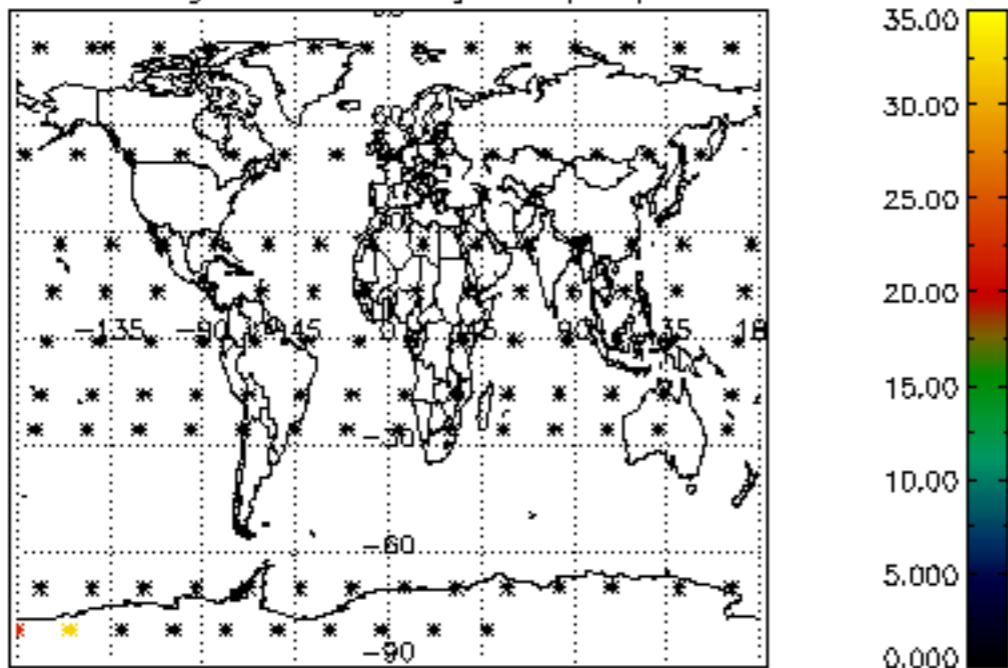
Percentage of star falling outside central band per profile



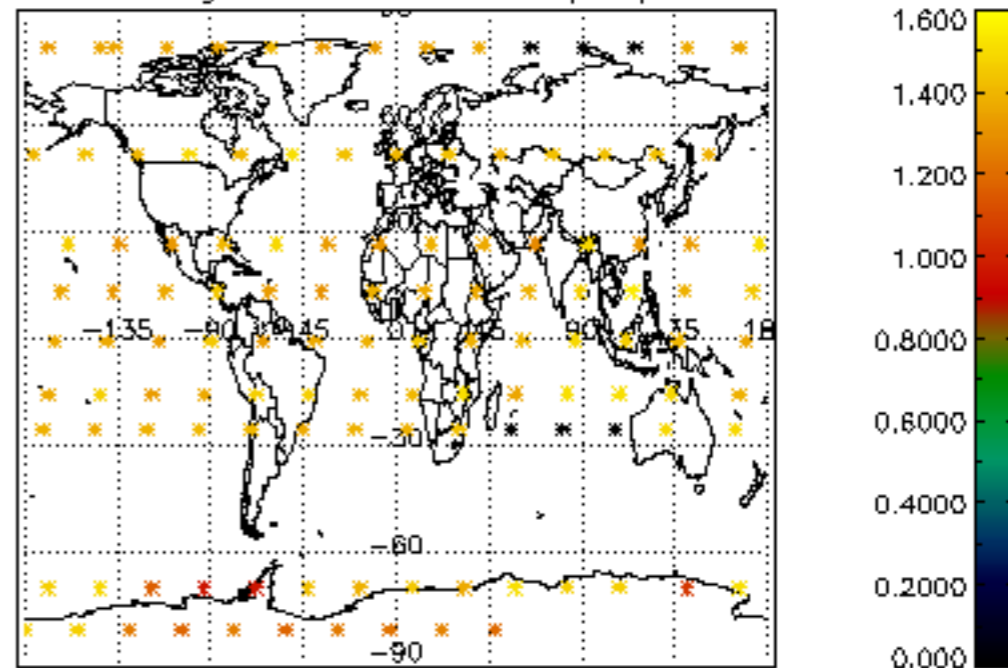
Percentage of saturation errors per profile



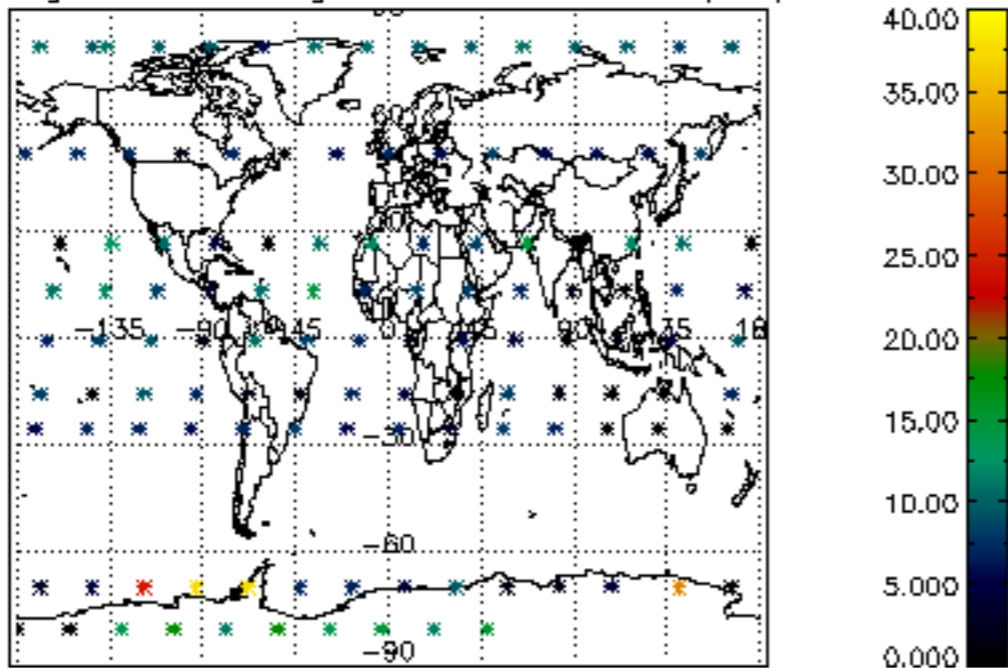
Percentage of cosmic ray hits per profile



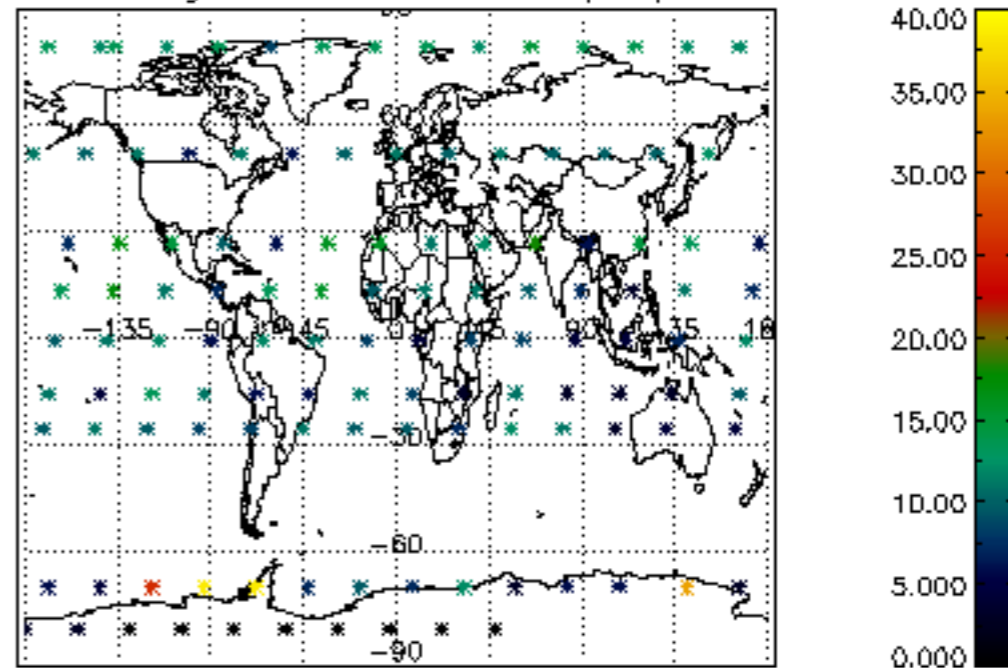
Percentage of datation errors per profile

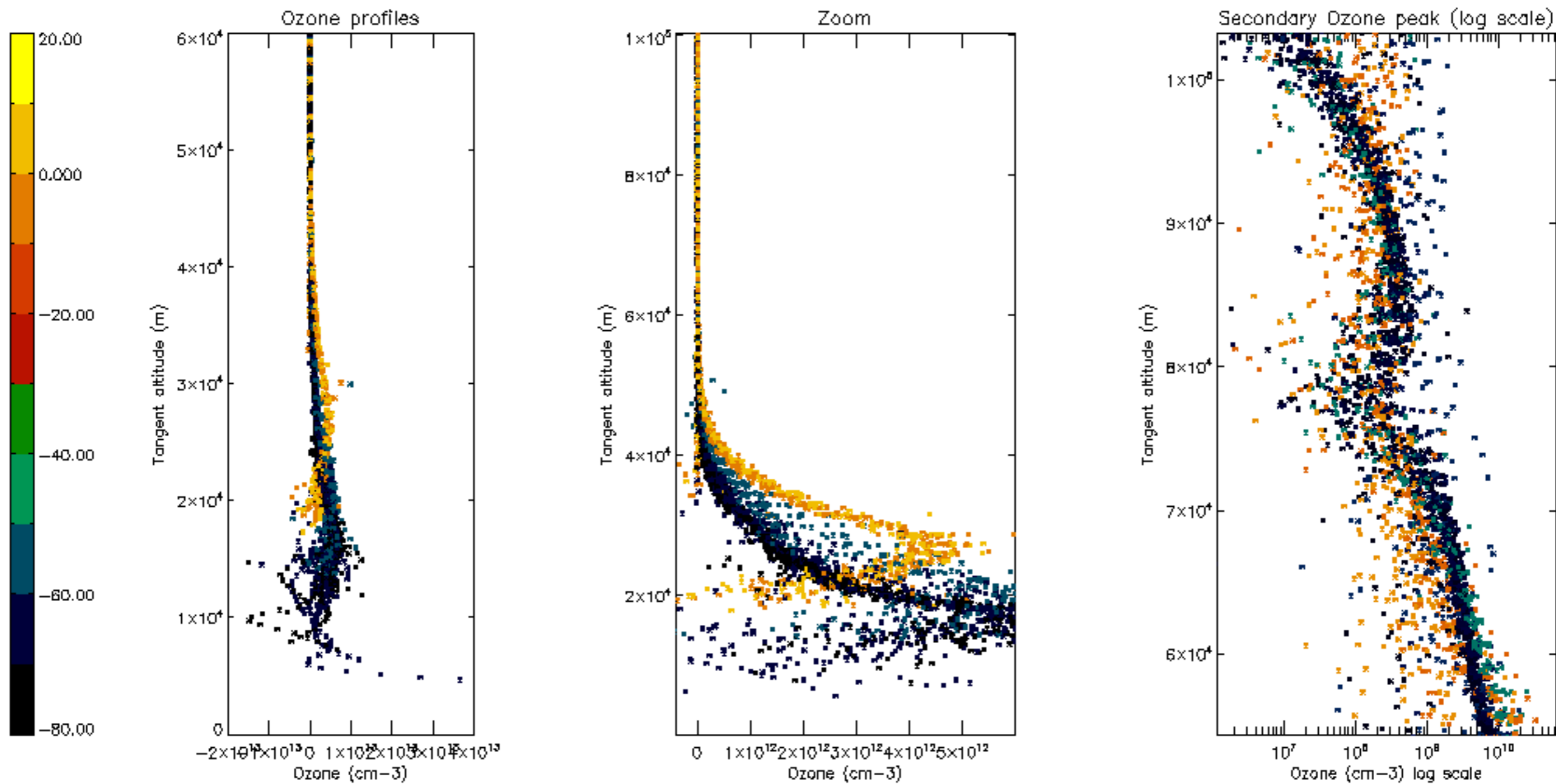


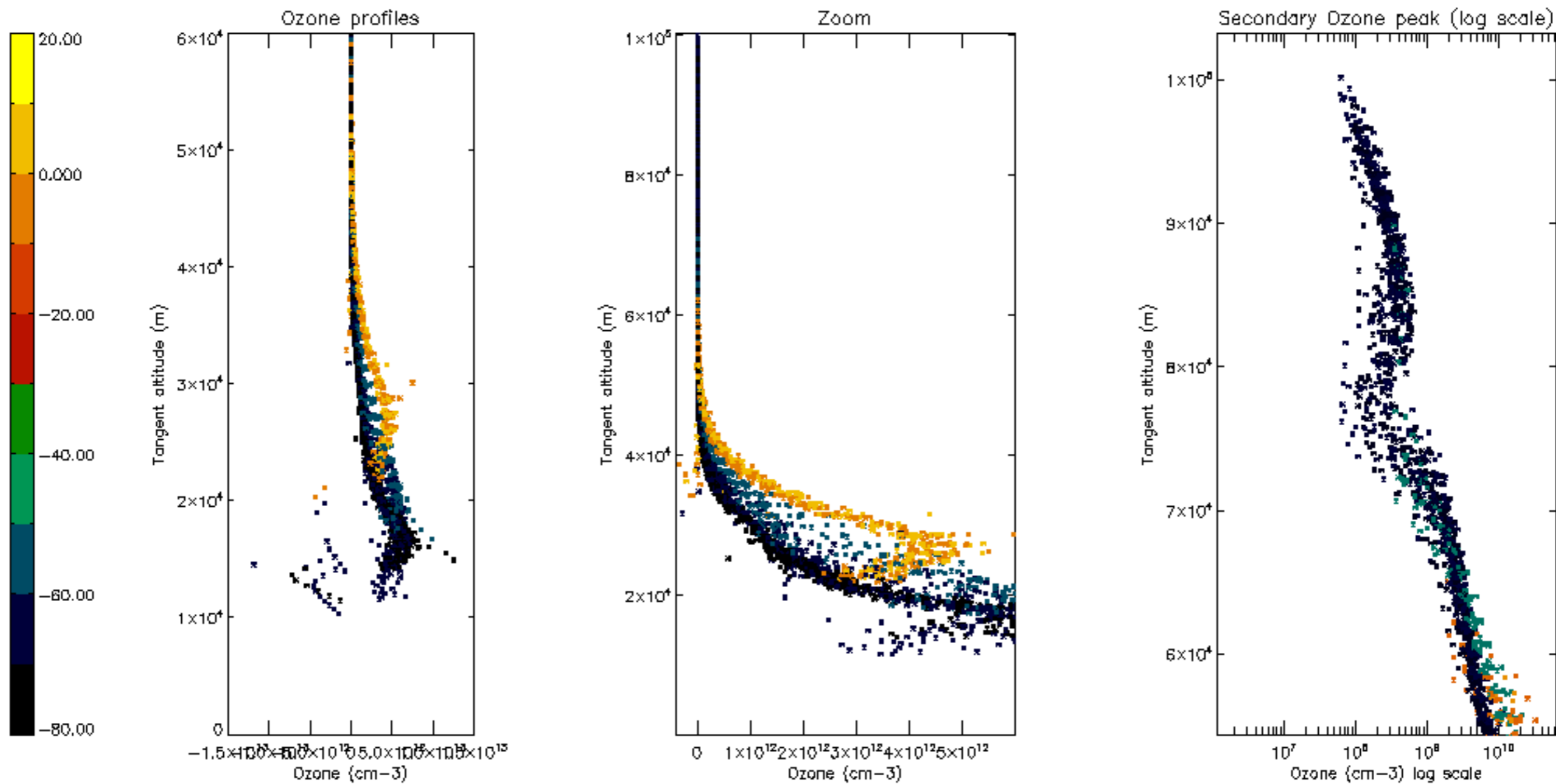
Percentage of star falling outside central band per profile

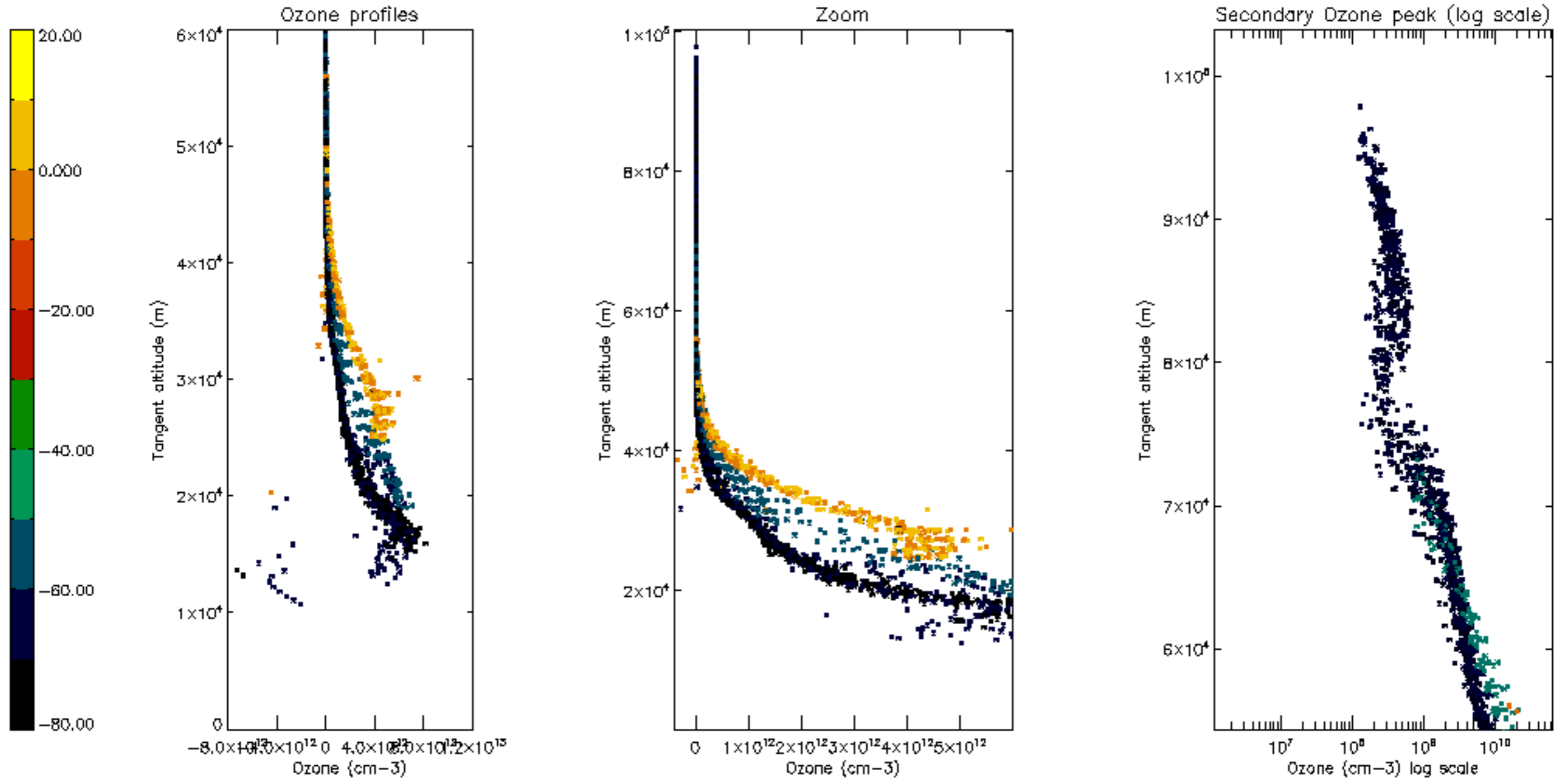


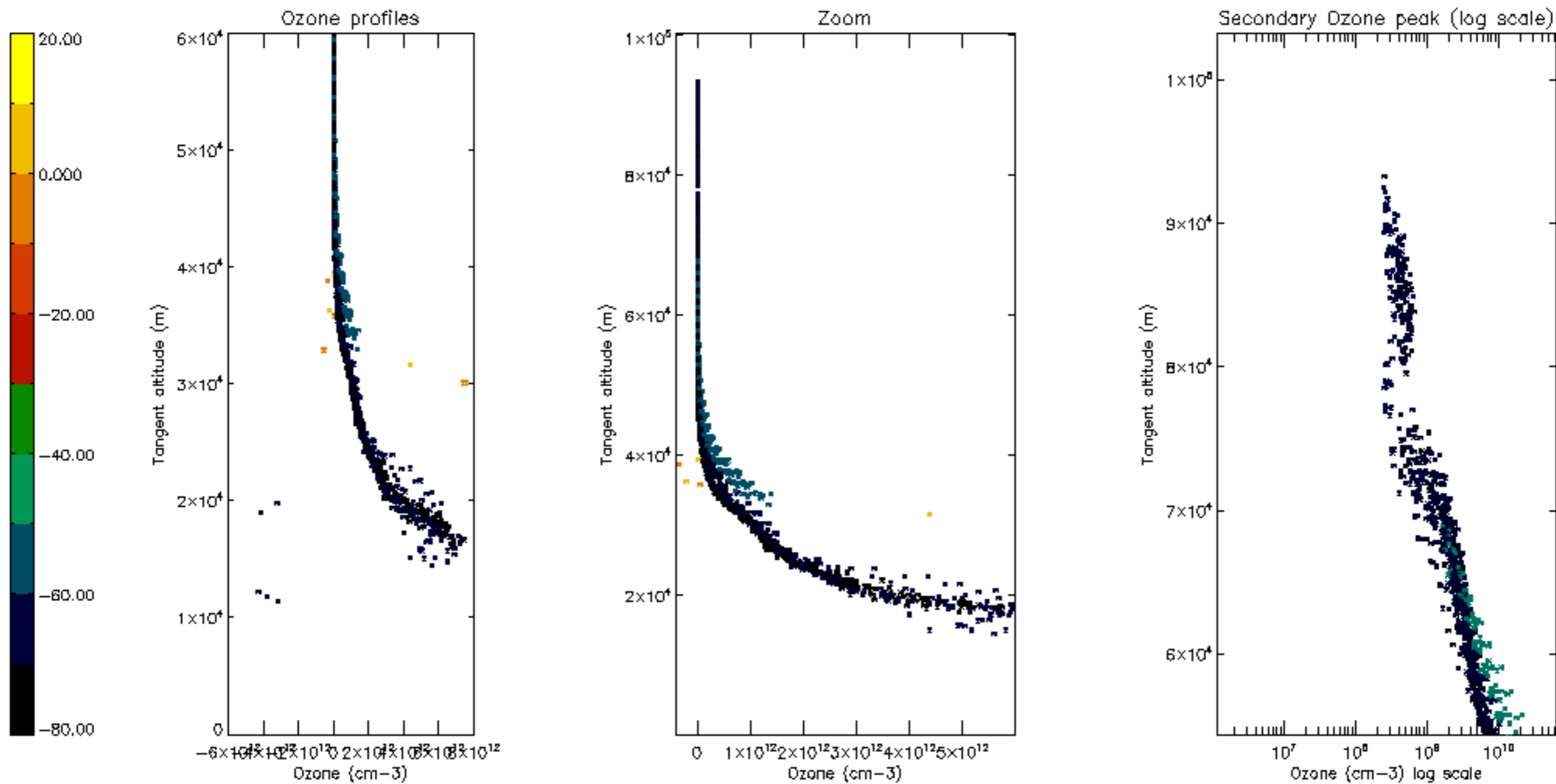
Percentage of saturation errors per profile

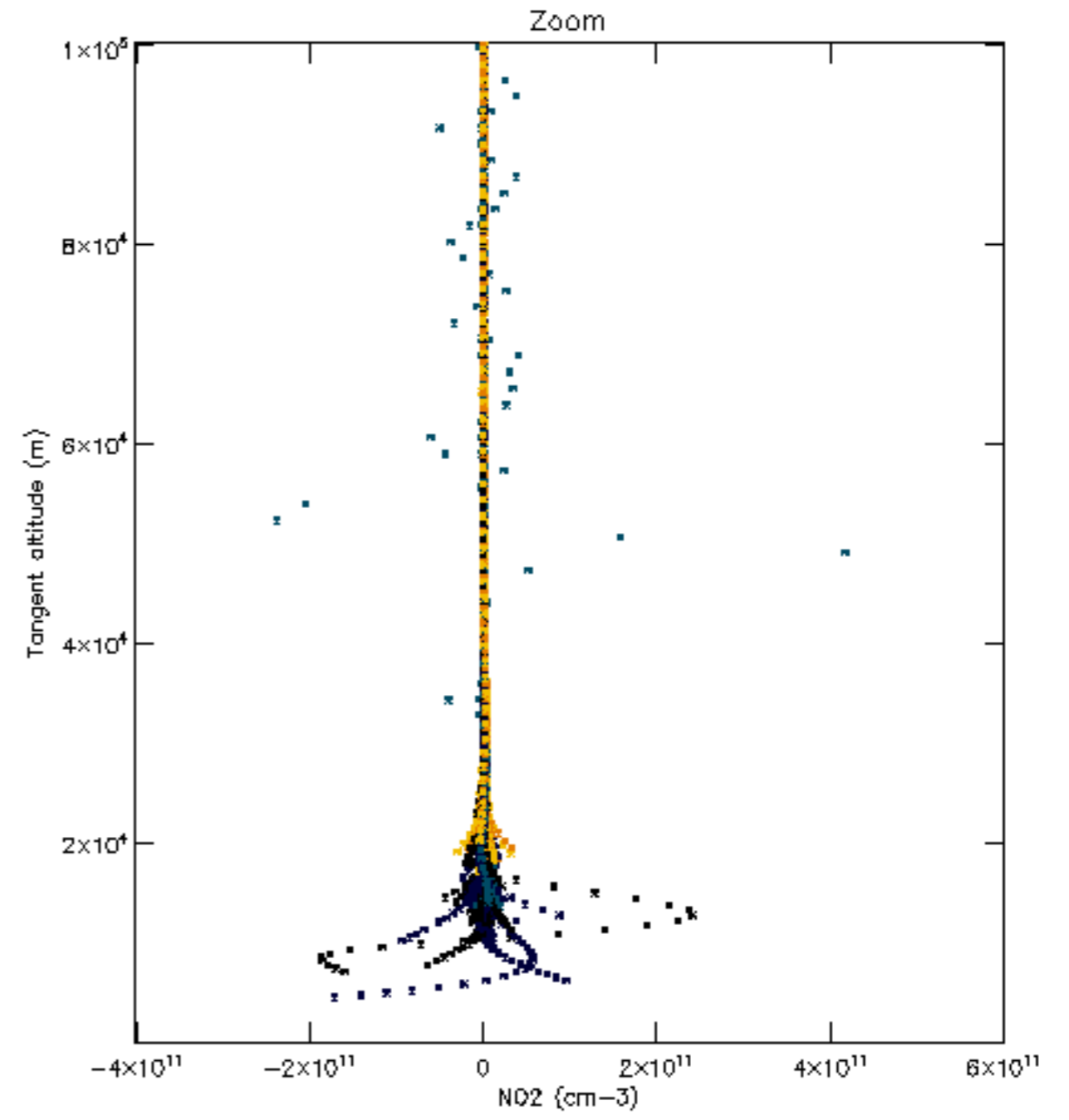
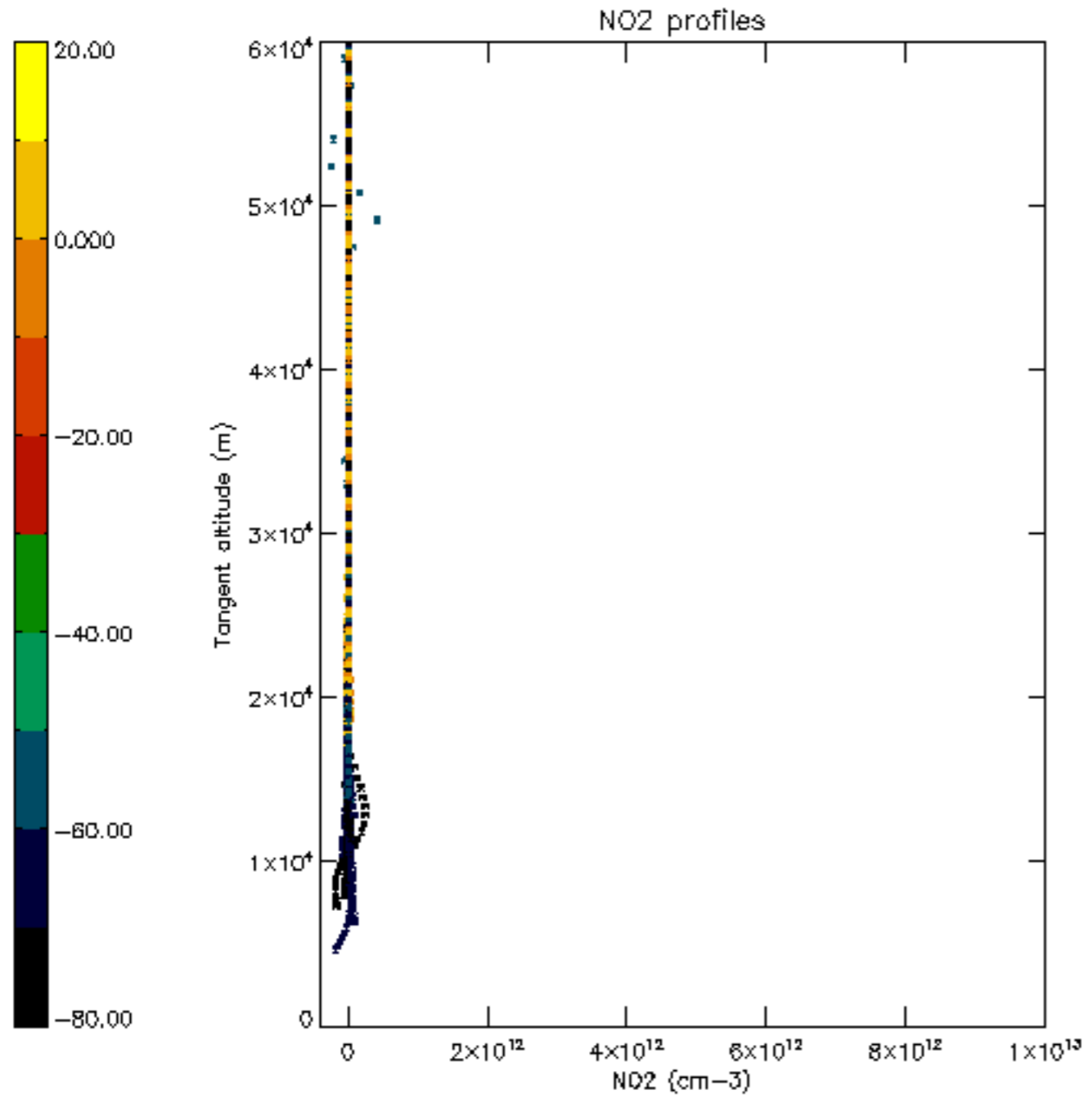


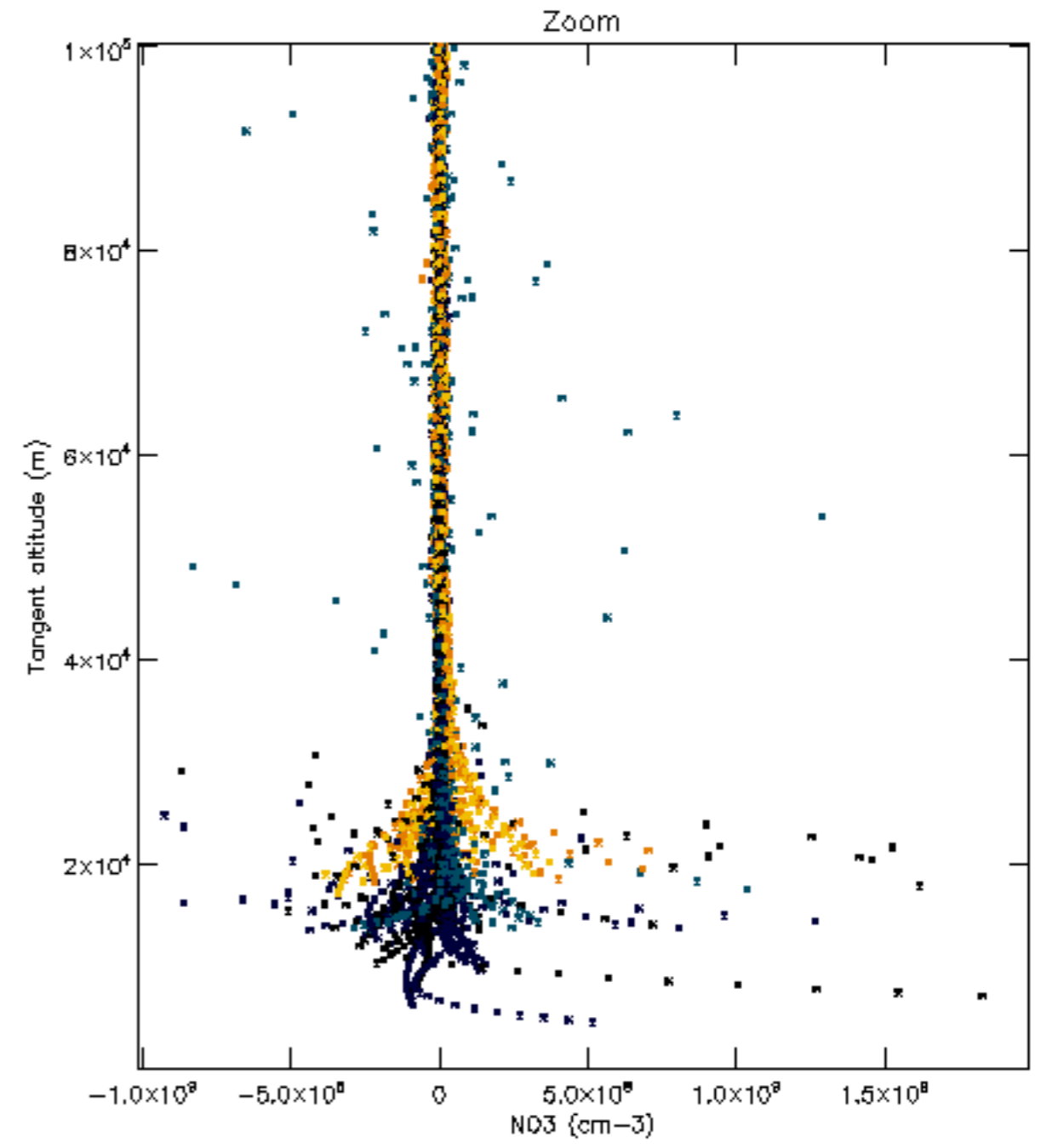
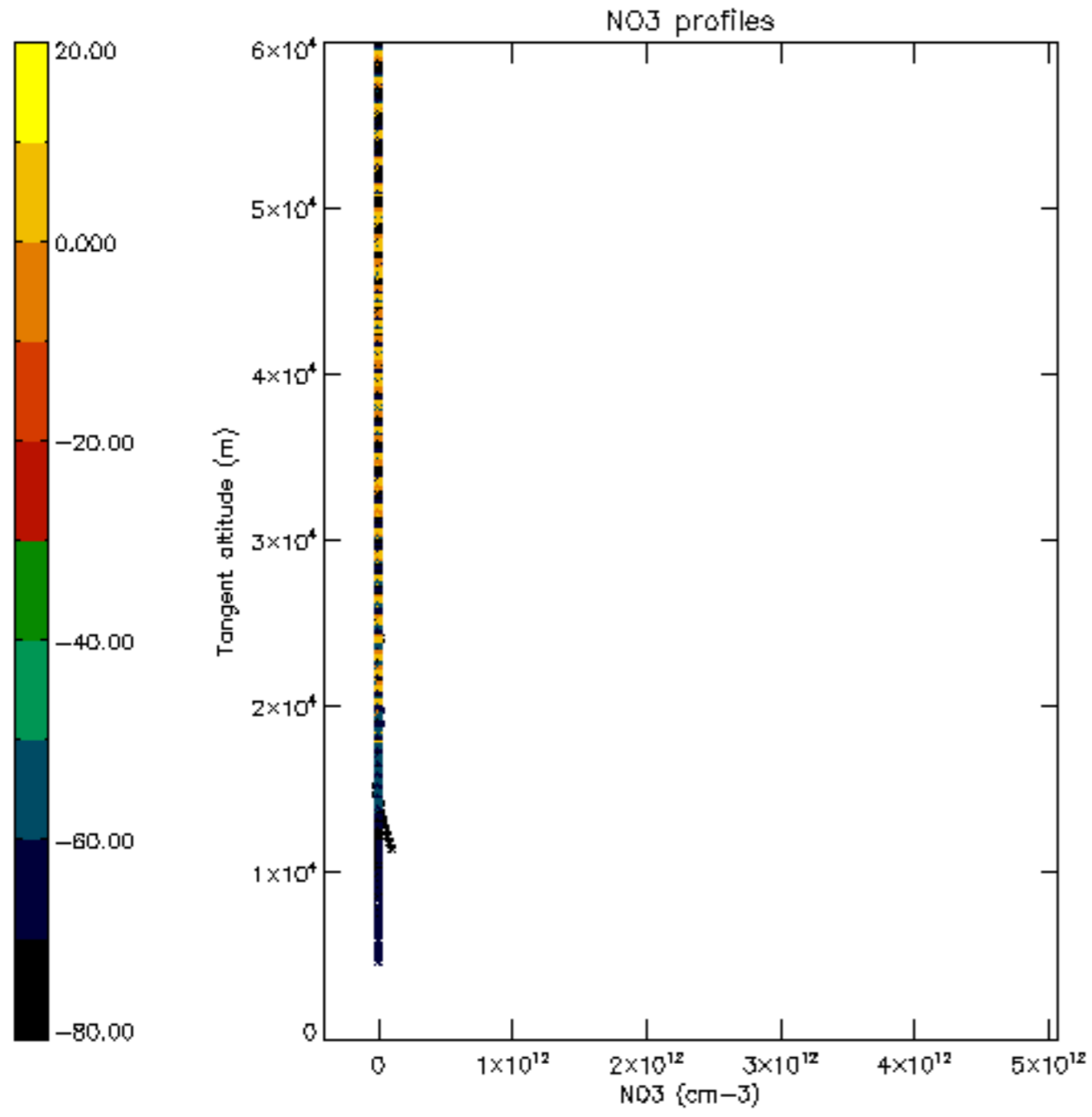


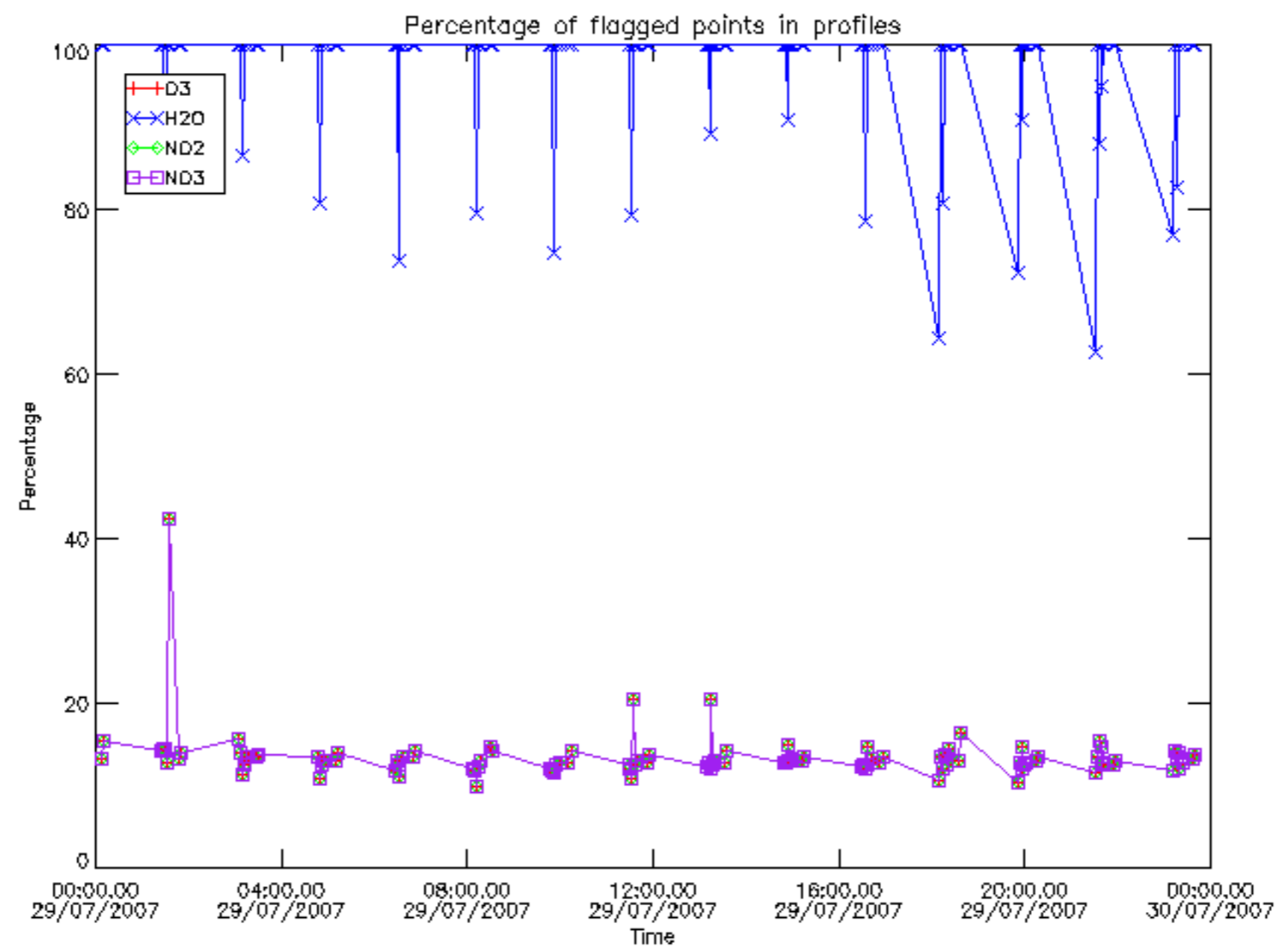




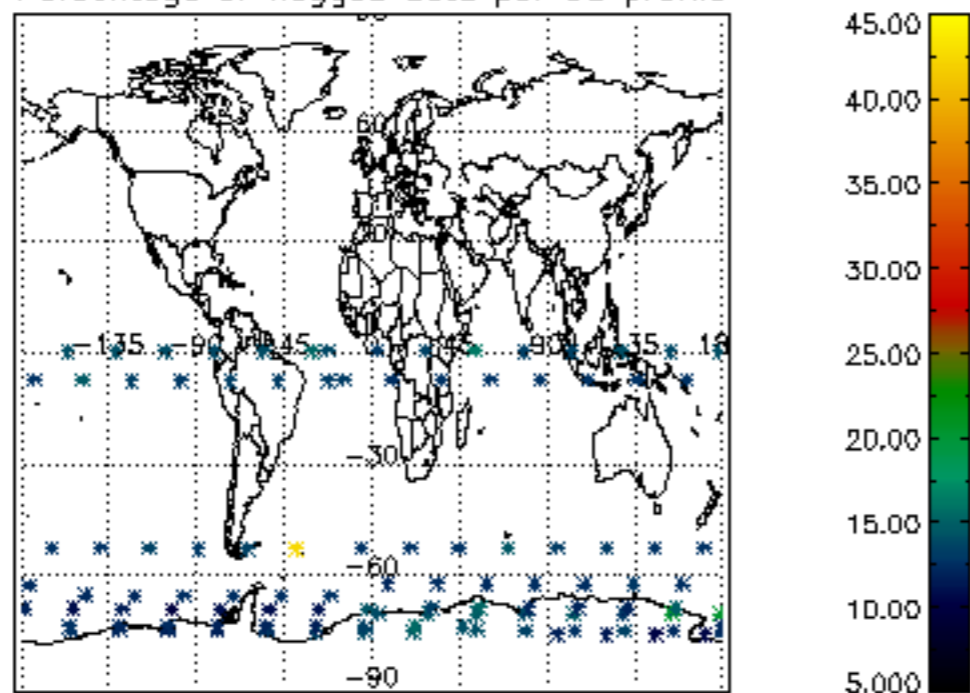




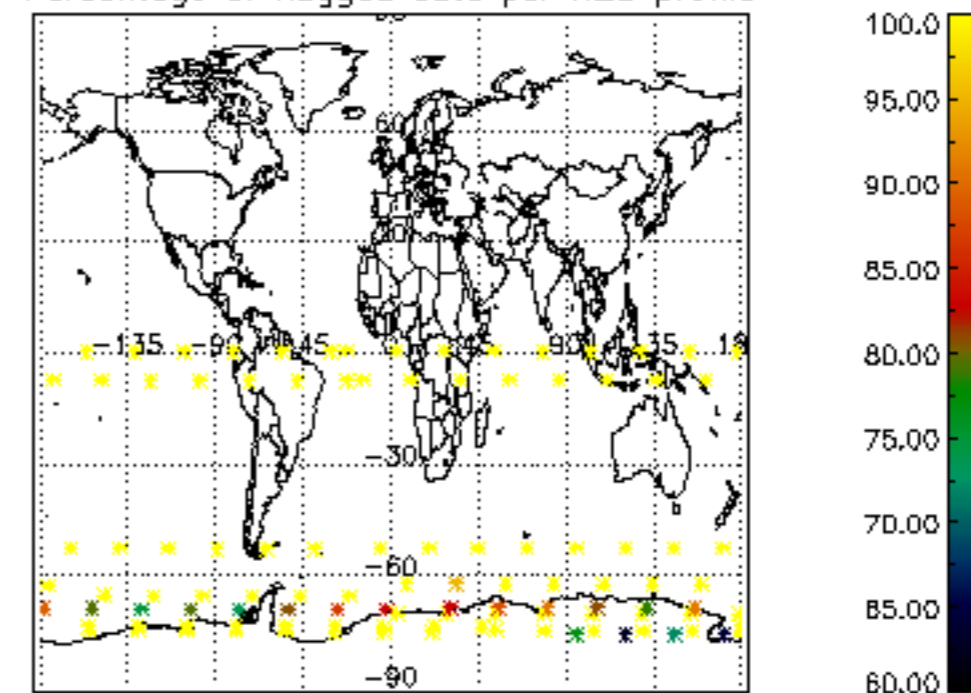




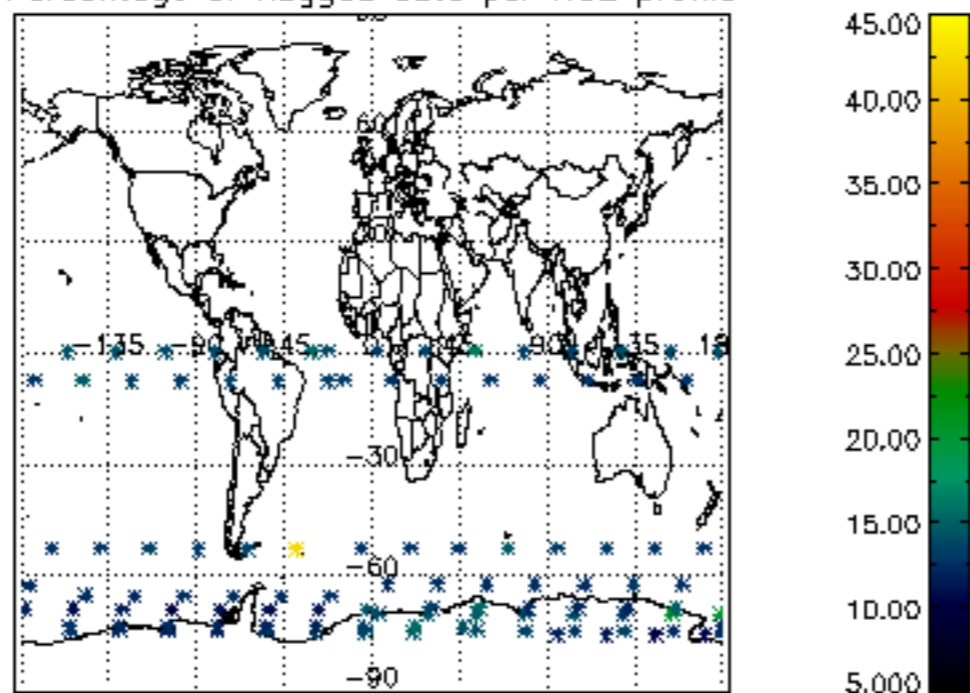
Percentage of flagged data per D3 profile



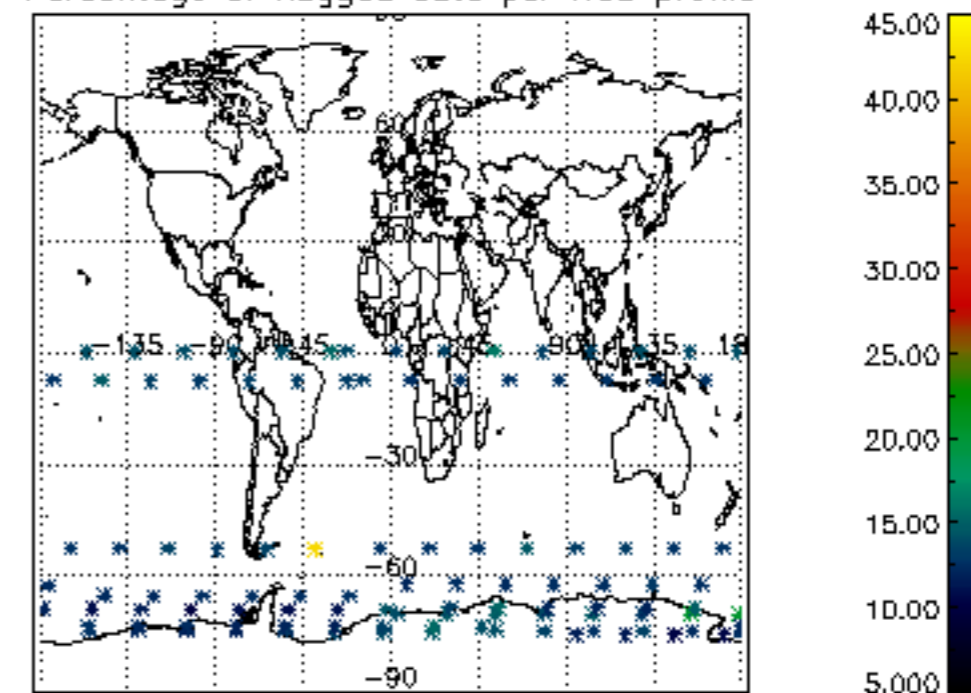
Percentage of flagged data per H2O profile

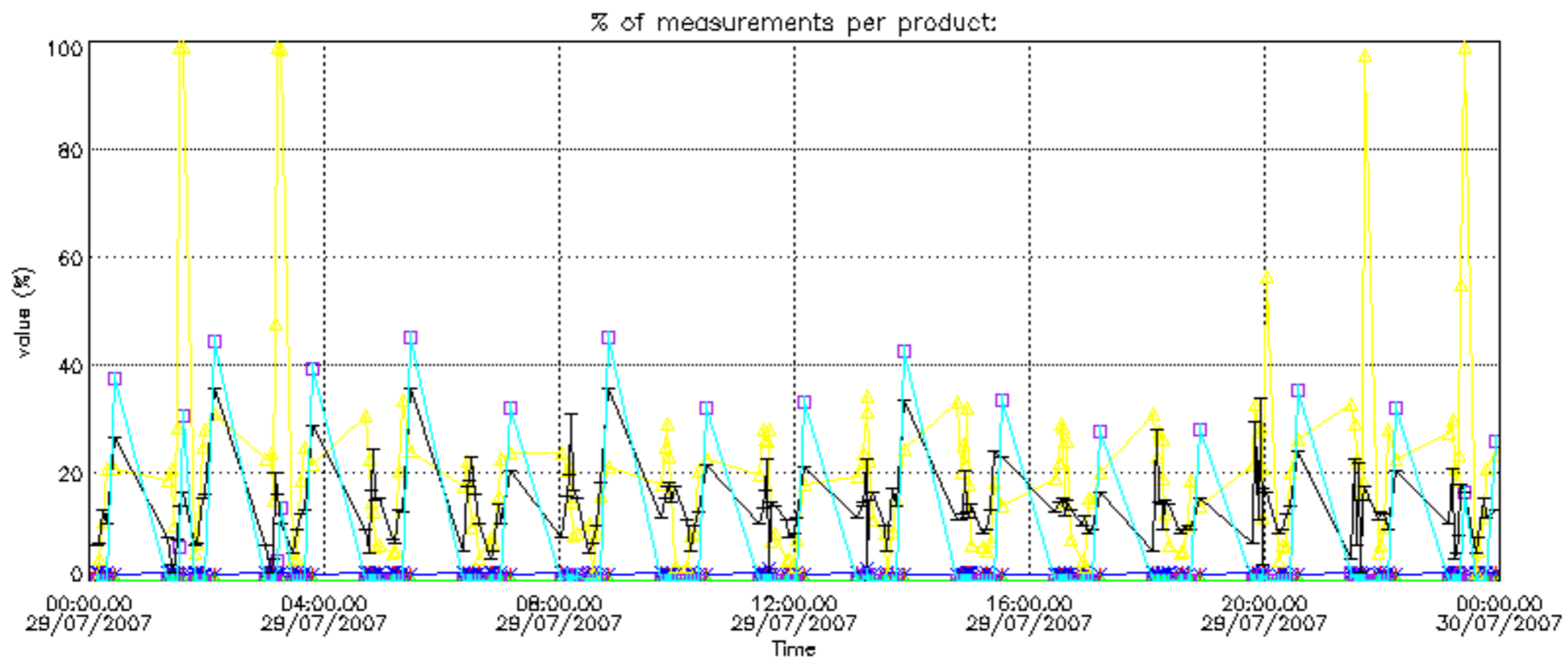


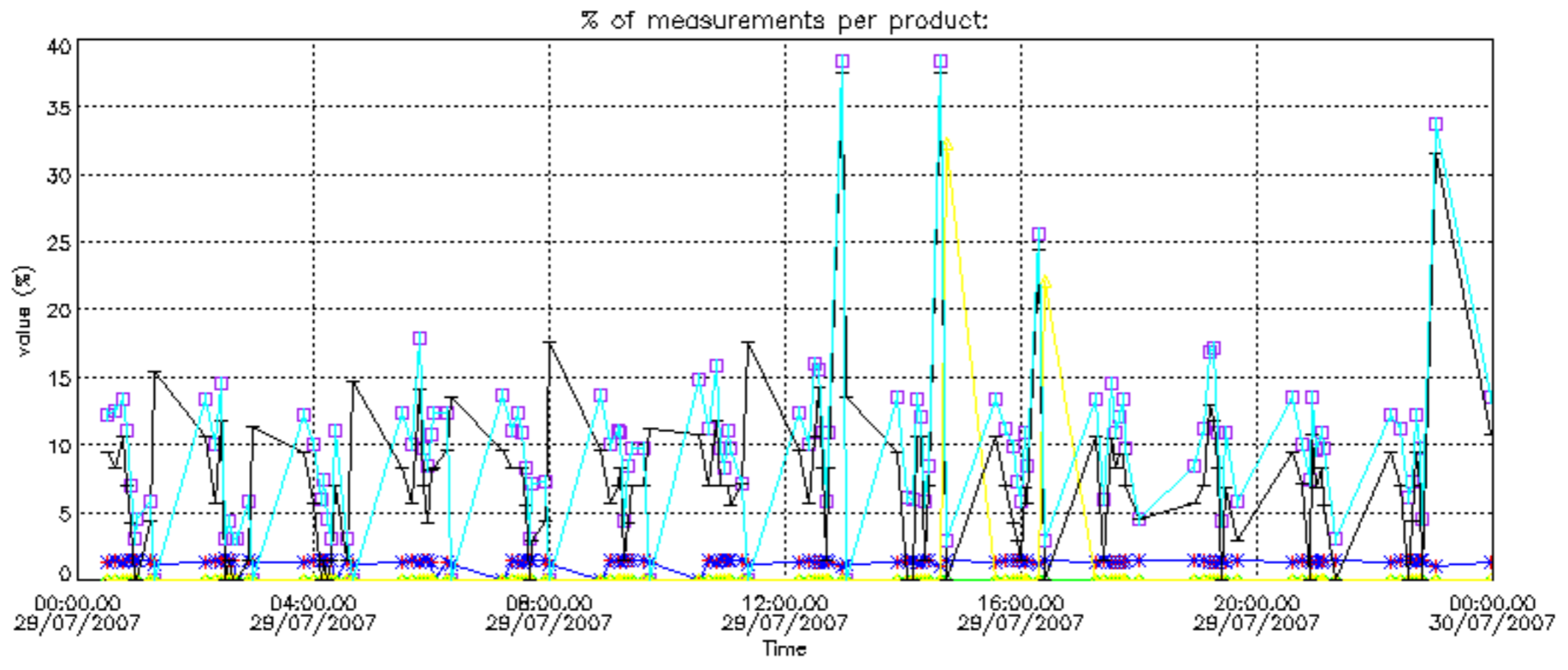
Percentage of flagged data per NO2 profile



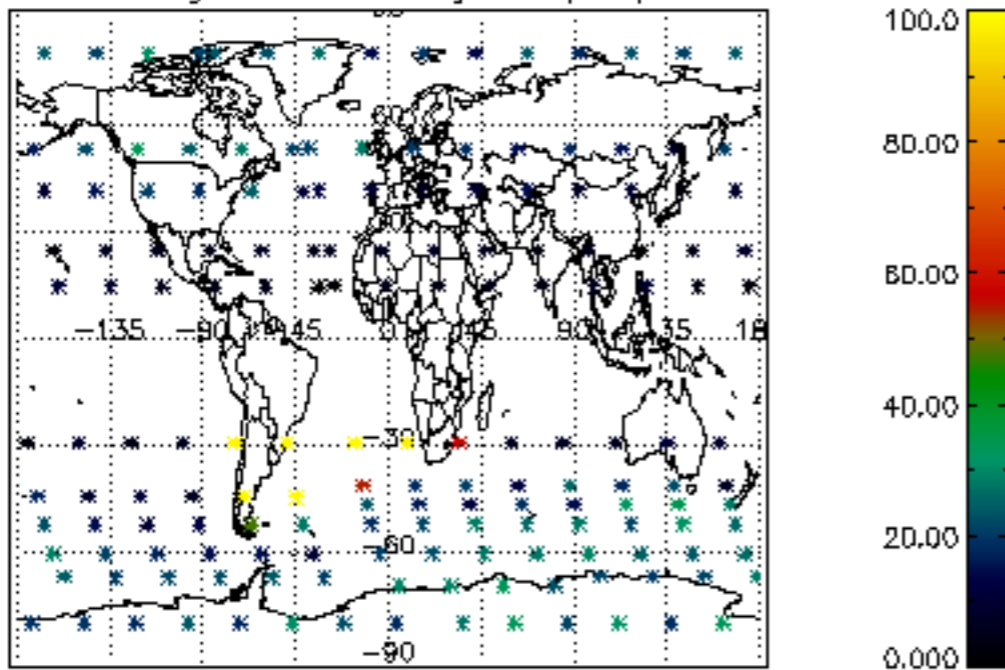
Percentage of flagged data per NO3 profile



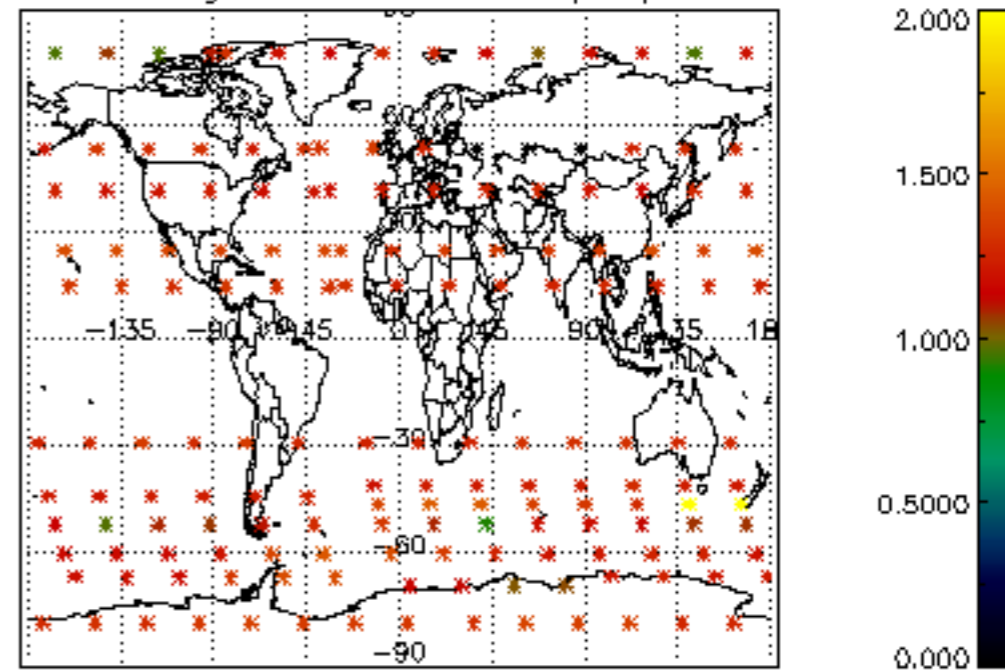




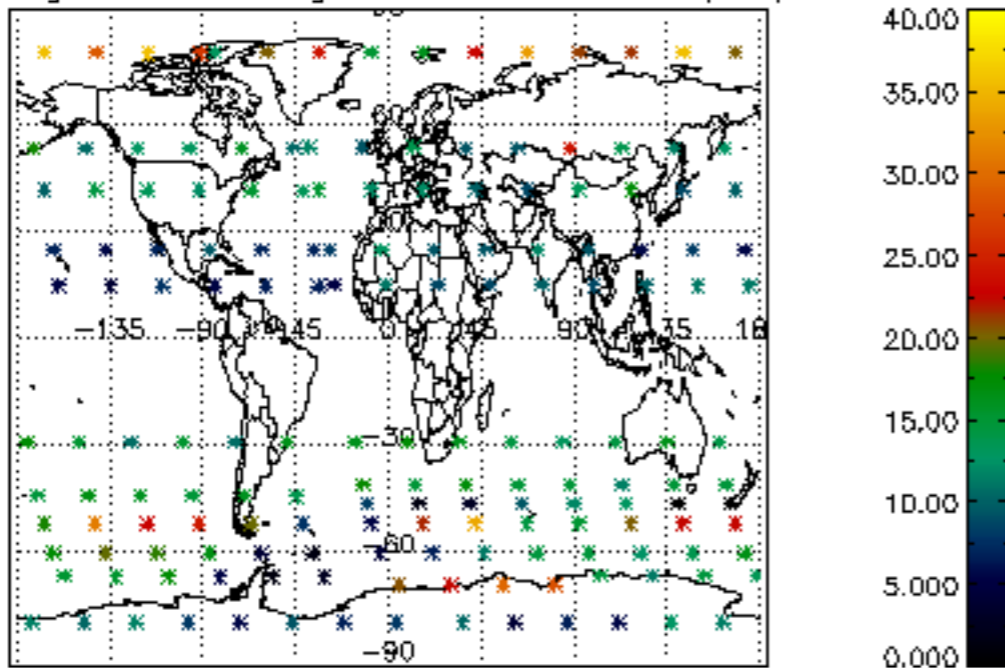
Percentage of cosmic ray hits per profile



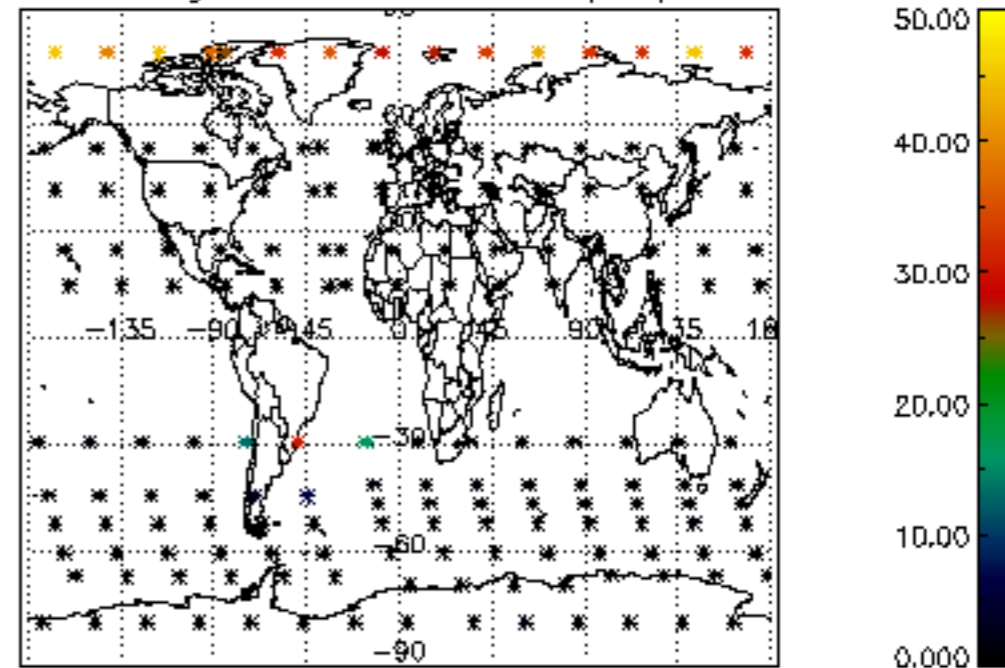
Percentage of datation errors per profile



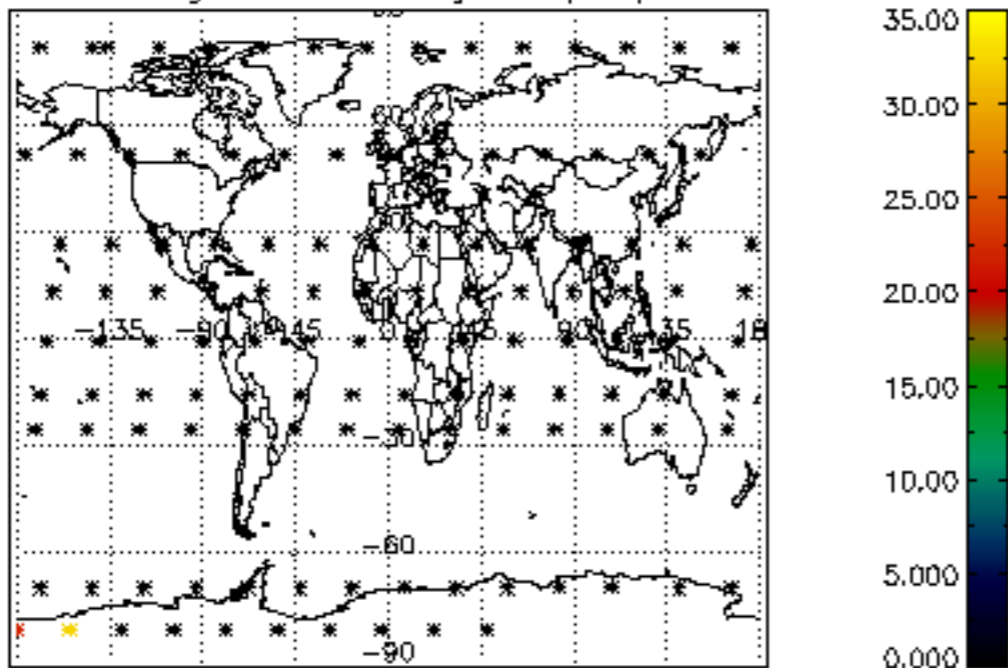
Percentage of star falling outside central band per profile



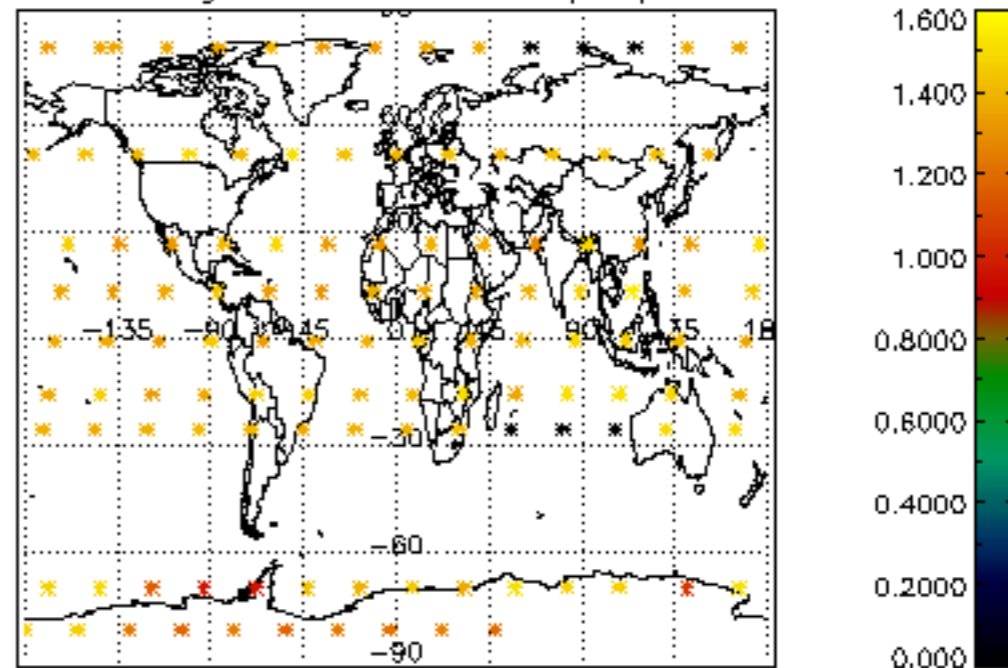
Percentage of saturation errors per profile



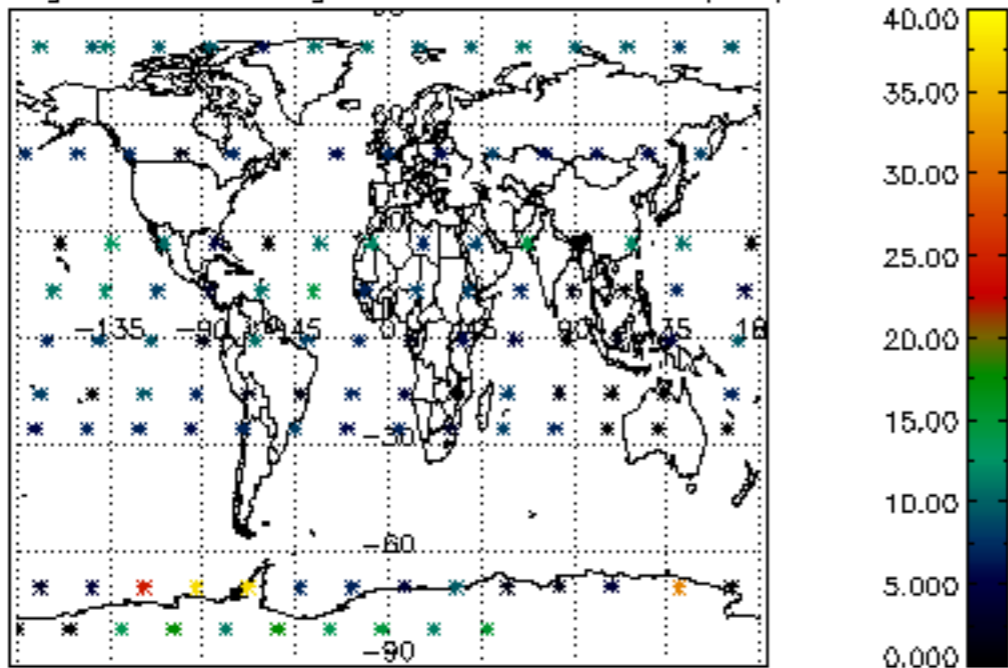
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

